Biologics Explorer Software 9.0.7 Release Notes

Introduction

Thank you for using the Biologics Explorer software.

Read this document carefully for information about changes, new features, and corrected and known issues. The information in this document makes the installation and use of the Biologics Explorer software easier.

The Biologics Explorer software supports the characterization of therapeutic protein and nucleotide therapeutic candidates from these analysis approaches:

- Protein mapping that uses measurements of intact molecules, partially cleaved intact molecules, and reduced intact molecules (TOF MS)
- Intact mass mapping of nucleotide molecules (TOF MS) and nucleotide sequencing (TOF MS/MS) and mapping
- Peptide mapping that uses data-dependent acquisition (DDA) measurements of enzymatically digested proteins (TOF MS/MS)
- Top/middle-down protein sequencing with tandem mass spectrometric analysis of intact proteins or subunits of proteins (TOF MS/MS)

The Biologics Explorer software can analyze data that is collected with the SCIEX OS software and the Analyst TF software.

The Biologics Explorer software can annotate data from ZenoTOF 7600 systems, ZenoTOF 7600+ systems, and ZenoTOF 8600 systems, from MS/MS measurements of collisionally activated dissociation (CAD) and electron-activated dissociation (EAD) fragmentation.

The Biologics Explorer software is also compatible with data from TripleTOF 6600 systems, TripleTOF 6600+ systems, and X500B QTOF systems.

Software Versions

The software is available with a subscription license. New versions of the Biologics Explorer software are released regularly. During the license period, users with active subscriptions can upgrade to the next version of the software. When new versions of the software become available, e-mails are sent with information about new features and the location to download the software on the SCIEX website.

To get access to the latest features, optimized settings, and workflows, we recommend that users upgrade the software when possible. Refer to the section: Install or Upgrade the Biologics Explorer Software.

Related Documentation

A *Quick Guide* and workflow guidelines are supplied with the software. These documents give suggestions and best practices for the workflows for different supported applications.

To see the guidelines for a workflow, click the link at the top of the workflow.

Contextual help is available throughout the software. To open contextual help topics in a web browser, click **(Online Help)**.

Note: To get access to these topics, an Internet connection is required. If an Internet connection is not available, then contact SCIEX support to get a `pdf` version of the online help.

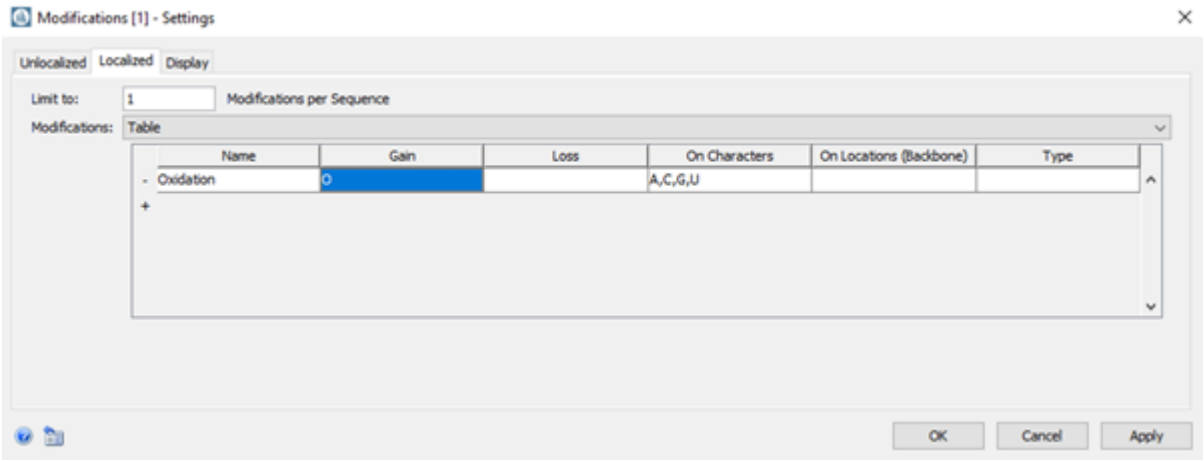
New Features in Version 9.0.7

- Intact protein and peptide mapping workflows: Features that support the use of the Biologics Explorer software in regulated workflows, for example, role-based privileges, audit records, and e-signatures
- Flexibility to use licensing to select the software modules that are required for a workflow
- Bayesian deconvolution method for more robust intact mass analysis for different spectrum sizes and better handling of harmonic artifacts
- Extracted ion chromatograms (XICs) that let users edit peak integrations manually replaced annotation chromatograms
- Reports that can include annotated MS/MS spectra, precursor TOF-MS spectra, specified columns in a selected table, and initial spectra with charge grids for deconvolution data
- Analysis of electron-based MS/MS fragmentation (EAD, EDD) data for oligonucleotide workflows
- Analysis of oligonucleotides that contain diverse linker chemistries, for example, Morpholinos
- Use of the Nuclease Editor to define custom nucleases for oligonucleotide mapping workflows
- Candidate streaming option that enables work with a large number of theoretical candidates

Known Issues and Limitations

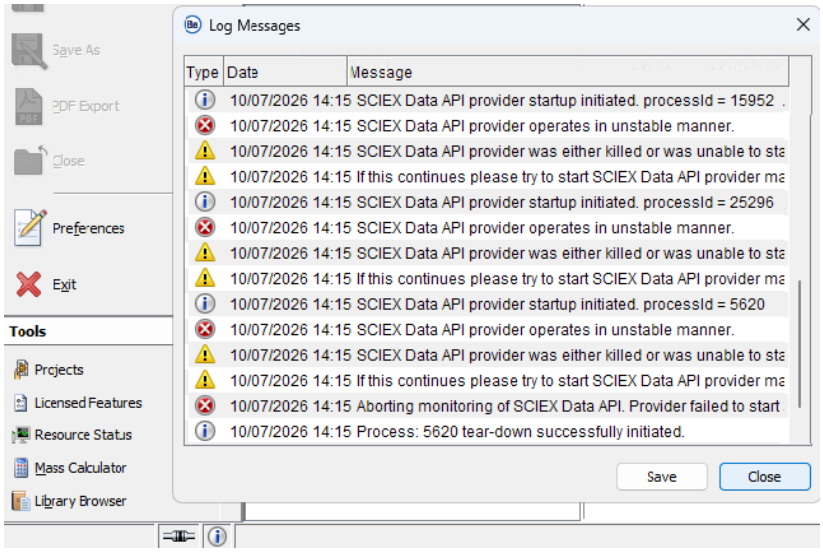
- Batch processing for peptide mapping is resource intensive because it creates temporary files on the `C:\` drive. To make disk space available, close the Biologics Explorer software between batches, and then open it again.
- The nucleotide workflows process one sample at a time. Multisample analysis is not supported.
- In nucleotide workflows, before MS/MS data is used to assign modifications, the modifications must be added on the Localized tab in **Modifications**.

Figure 1 Modifications – Settings Dialog: Localized Tab



- The SCIEX Data Service is configured to use port 50051. If this port is not available, then one of these events might occur:
  - **Load Raw Data** shows a `No Data` error.
  - **Load Raw Data** stays at 0% progress.
  - The Log Messages dialog shows error or warning messages.

Figure 2 Log Messages Dialog

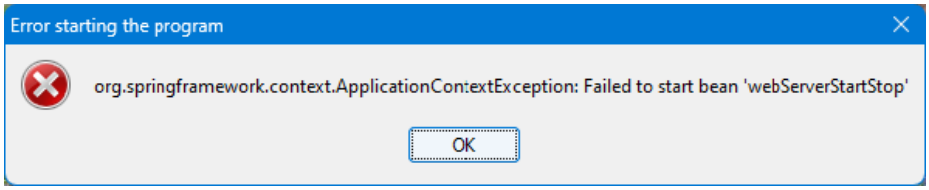


- This entry is shown in the `server.log` file: `Please consider reconfiguring sciex.data.service.port in site.properties and restart.`

Note: To correct this issue, refer to the section: Configure the Port for the SCIEX Data Service.

- The SCIEX Web is configured to use port 8090. If this port is not available, then one of these events might occur:
  - The Biologics Explorer software will not open.
  - This error dialog opens:

Figure 3 Error starting the program Dialog



  - This entry is shown in the `server.log` file: `Port 8090 is already in use.`

Note: To correct this issue, refer to the section: Configure the Port for the SCIEX Web.

Configure the Port for the SCIEX Data Service

Do this procedure to configure a different port for the SCIEX Data Service.

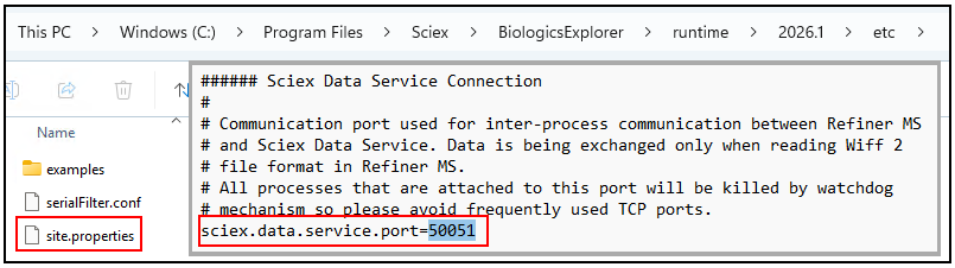
Note: Administrator privileges are required to edit files in the `C:\Program Files\Sciex\BiologicsExplorer` folder.

1. Close the Biologics Explorer software.
2. Browse to the `C:\Program Files\Sciex\BiologicsExplorer\runtime\2026.1\etc` folder.

   Note: If the Biologics Explorer software was not installed in the default location, then this path name will be different.

3. Open the `site.properties` file.
4. Change the `sciex.data.service.port` property to a value between 20000 and 29999.

Figure 4 `sciex.data.service.port` Property



5. Save the changes, and then close the `site.properties` file.
6. Browse to the `C:\Program Files\Sciex\BiologicsExplorer\runtime\2026.1\refiner_ms\bin\ sciex-data-service\windows` folder.
7. Open the `appsettings.json` file.
8. Change the `Port` property to the value that is used in step 4.
9. Save the changes, and then close the `appsettings.json` file.
10. Open the Biologics Explorer software.
11. Make sure that the SCIEX Data Service connects without errors.

Configure the Port for the SCIEX Web

Do this procedure to configure a different port for the SCIEX Web.

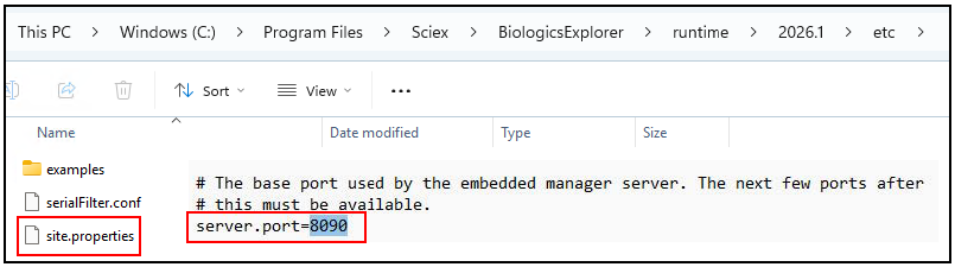
Note: Administrator privileges are required to edit files in the `C:\Program Files\Sciex\BiologicsExplorer` folder.

1. Close the Biologics Explorer software.
2. Browse to the `C:\Program Files\Sciex\BiologicsExplorer\runtime\2026.1\etc` folder.

   Note: If the Biologics Explorer software was not installed in the default location, then this path name will be different.

3. Open the `site.properties` file.
4. Change the `server.port` property to a different value that is more than 1000.

   Figure 5 `server.port` Property



5. Save the changes, and then close the `site.properties` file.
6. Open the Biologics Explorer software.
7. Make sure that the SCIEX Web connects without errors.

Installation

Computer Requirements

- SCIEX Workstation Plus computer with:
  - Xeon 8 core processor
  - 32 GB RAM
  - 2 × 2 TB SSD storage disks, C:\ for the installation path for the Biologics Explorer software, and D:\ for the disk cache

Note: Newer systems might become available. For more information, contact the local sales representative. Older computer models might be compatible, but they have not been tested and performance might decrease.

Operating System Requirements

One of these operating systems is required:

- Windows 10, 64 bit
- Window 11, 64 bit

Internet Requirements

- Internet access: Port 443 of the workstation must be open, so that the Package Manager can connect to the package server for access to the template workflows
- Google Chrome browser

Install or Upgrade the Biologics Explorer Software

Prerequisites
• A license key for the Biologics Explorer software is available. The license key, also known as an activation ID (AID), is sent in an e-mail from SCIEX Now. If the license key is missing, then contact a SCIEX sales representative.

1. Log on to the computer as a Windows user with Administrator privileges.
2. Go to sciex.com/software-downloads, and then download the required `zip` file.

   Tip! To prevent installation issues, save the file to the local computer in a different location than the desktop.

3. After the download is completed, right-click the downloaded file, and then click **Extract All**, browse to the destination folder, and then click **Extract**.

   Note: By default, the files are extracted to the location where the `zip` file was saved.

4. Double-click `biologics_explorer-9.0.7.exe`.
   The SCIEX Biologics Explorer Setup window opens.
5. Obey the on-screen instructions to complete the installation.

Note: When a prompt for the installation path is shown, use `C:\` (default) or a different local drive. If a different local drive is used, then set the **Cache Location** to `C:\SCIEX \BiologicsExplorer\var\cache`.

6. Do one of these steps:

   - New software installations: After the installation is completed, click **Finish**.

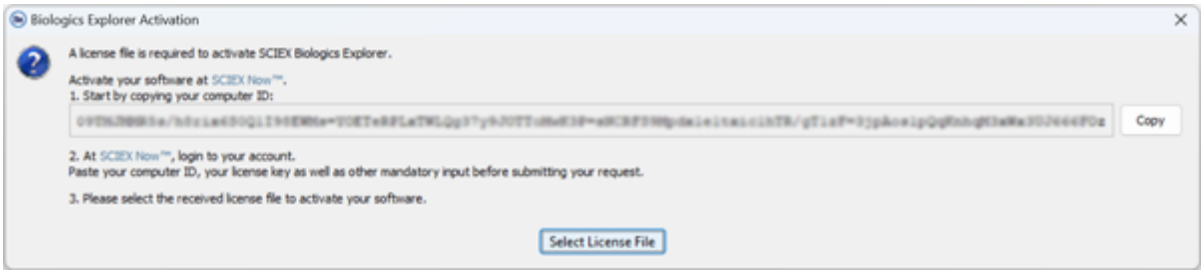
     The installation wizard opens the Biologics Explorer software. The Biologics Explorer Activation dialog opens. Continue with the section: Activate the Software.

   - Software upgrades: Continue with the section: Add a License.

Activate the Software

1. If required, then open the Biologics Explorer software.

Figure 6 Biologics Explorer Activation Dialog

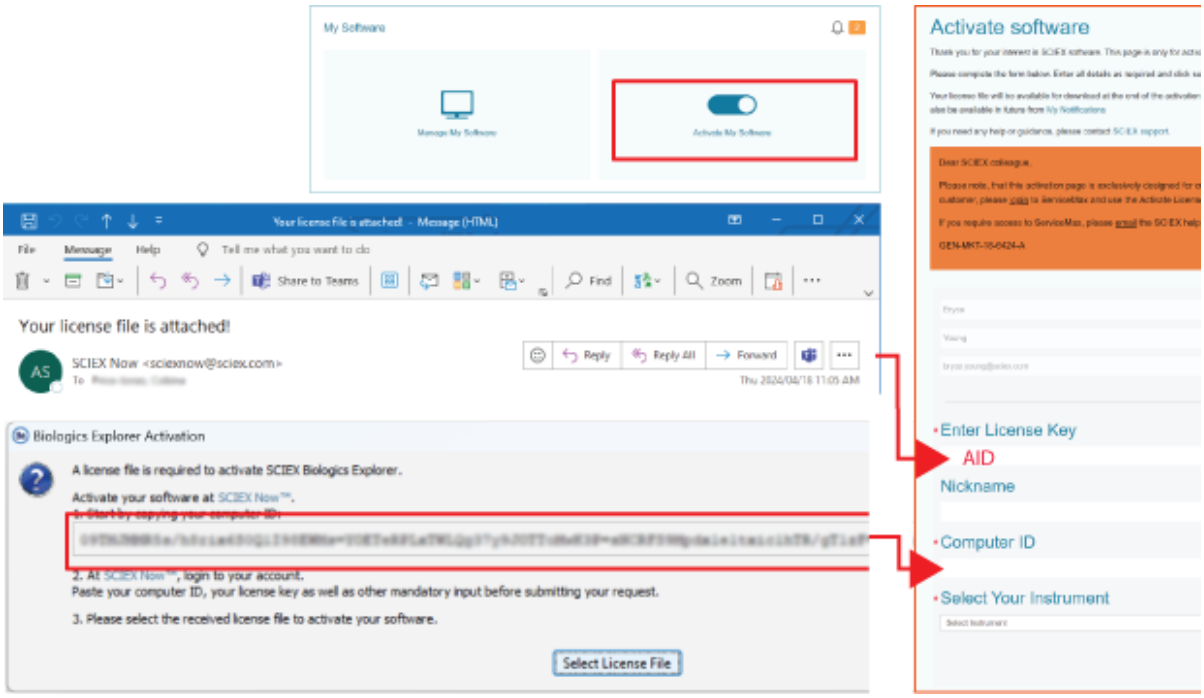


2. To copy the computer ID to the clipboard, click **Copy**.

Note: The computer ID is not the MAC address. To find the computer ID, refer to the Biologics Explorer Activation dialog.

3. Click SCIEX Now.
   The SCIEX Now activation page opens in a web browser.
4. Log on to SCIEX Now.
5. Obey the instructions to get a software license.

Figure 7 Activate the Software



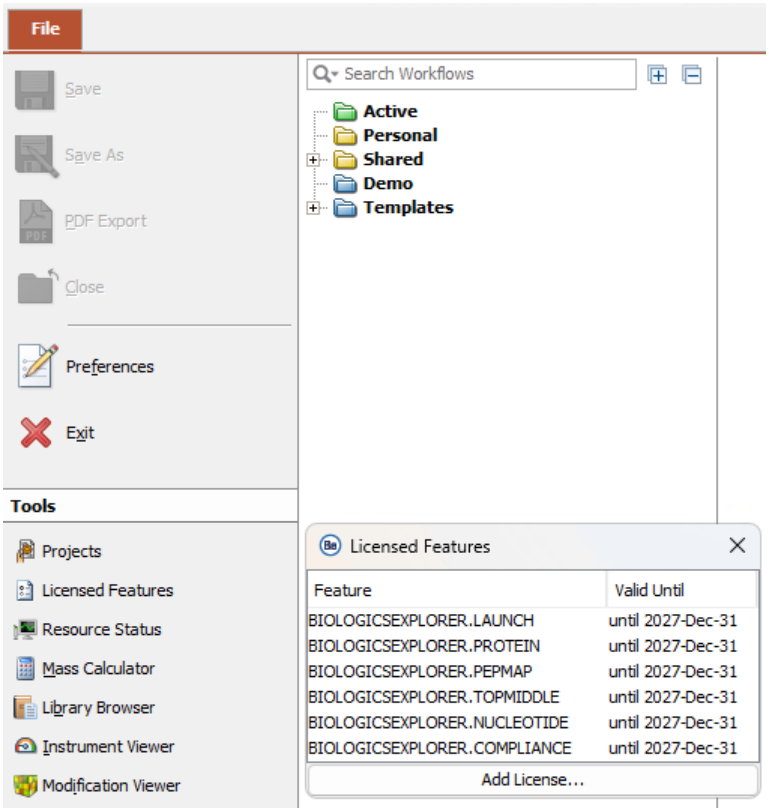
6. Open the Biologics Explorer software, and then click **Select License File**.
7. Browse to and select the license file, and then click **Load license**.
   The software is activated.

Add a License

If required, then do this procedure to add license files that were not selected during software activation.

1. In the Biologics Explorer software, click **File** > **Tools** > **Licensed Features**.

Figure 8 Licensed Features Dialog



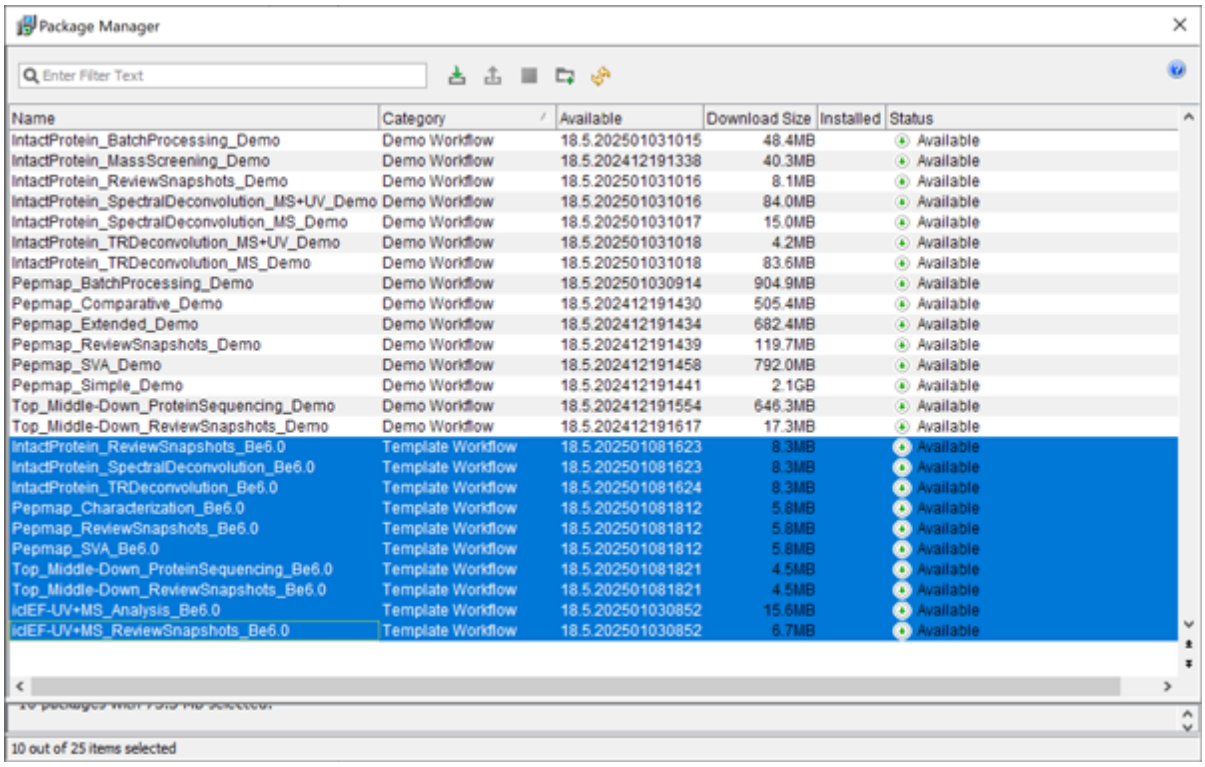
2. Click **Add License**.

Install the Workflow Package

Note: Workflow templates are updated regularly. We recommend the use of the latest version of a template, which is available through the Package Manager.

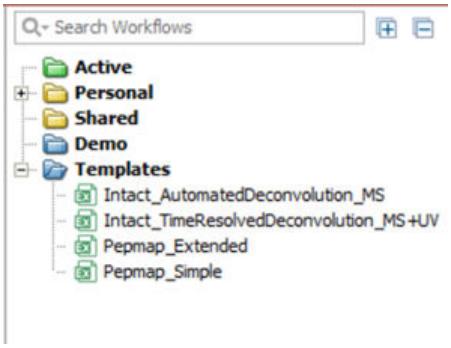
1. Open the Biologics Explorer software.
2. Click **Tools** > **Package Manager**.
   The list of available workflow packages is shown.

Figure 9 Package Manager Window



3. Click  **(Install Package)**.
The downloaded workflow is available in the applicable folder: `Demo` or `Templates`.

Figure 10 `Demo` and `Templates` Folders



Tip! To create and use customized workflows, refer to the workflow guidelines.

Remove the Biologics Explorer Software

Prerequisites
• Remove installed HotFixes for the Biologics Explorer software.

1. Log on to the computer as a Windows user with Administrator privileges.
2. Click **Start** > **Control Panel** > **Programs and Features**.

   Tip! If the control panel components are shown by **Category**, then click **Start** > **Control Panel** > **Programs** > **Programs and Features** > **Uninstall a program**.
3. Select **SCIEX Biologics Explorer**, and then click **Uninstall**.

   The software is removed. User intervention is not required.

   Note: The license file is not removed and can be used if the Biologics Explorer software is installed again.

   Tip! As an alternative, click  (**biologics_explorer Administration**) to remove the software.

Frequently Asked Questions

The C:\ and D:\ drives contain folders for the Biologics Explorer software. What are these folders used for?

By default, the software is installed on the `C:\` drive, and processed data is kept in the `C:\Home` folder. During processing, data is kept in the `D:\Cache` folder. To monitor resource consumption during processing, click **Tools** > **Resource Status**.

Can I install the software on a laptop that only has a C:\ drive?

For optimal performance in routine use, we recommend the use of the SCIEX Workstation Plus. Refer to the section: Computer Requirements.

For the purposes of demonstration, training, and nonroutine usage, the software can be installed on a laptop with one hard drive. The installation program automatically detects that the computer has one hard drive and adjusts to this configuration. Prompts for the **Data Location** and **Cache Location** are shown during the installation.

Can I install the software on a processing computer that does not meet the recommended requirements?

Yes, but the software processing speed is best when the computer meets the specified requirements.

Do multiple users of the software require separate license files?

No. The license file is related to the computer on which the software is installed.

My installation is now completed. How can I start my processing?

Select the workflow template that is applicable to the application, copy the template into a `Personal` folder, open the template, add data files and customize the parameters, and then save the workflow with a different name.

As an alternative, open the template in the `Templates` folder, add data files and customize the parameters, and then save the workflow with a different name.

How much time does the installation usually require?

The download and installation of all of the workflow templates usually requires less than 30 minutes on the recommended computer.

We use the `D:\` drive to keep raw data files. Is there a minimum amount of free disk space that we should keep on the `D:\` drive?

For the most efficient data post-processing in the Biologics Explorer software, we recommend that a minimum of 250 GB of free disk space be available on the `D:\` drive.

Can the software be installed on a drive other than the `C:\` or `D:\` drive?

No. We recommend that the software only be installed on these drives.

How do I make sure that all of my data in the Biologics Explorer software is kept when I make a back-up copy?

To save all of the data that has been created in the Biologics Explorer software, copy the default file path, and then paste it in a different location. Unless a different file path is set during installation, the default file path is `C:\ProgramData\Sciex\BiologicsExplorer`.

Contact Us

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Customer Training

- Global: sciex.com/contact-us

Online Learning Center

- SCIEX Now Learning Hub

SCIEX Support

SCIEX and its representatives have a global staff of fully-trained service and technical specialists. They can supply answers to questions about the system or any technical issues that might occur. For more information, go to the SCIEX website at sciex.com or use one of the links that follow to contact us.

- sciex.com/contact-us
- sciex.com/request-support

Cybersecurity

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/productsecurity.

Documentation

This version of the document supersedes all of the previous versions of this document.

The latest versions of the documentation are available on the SCIEX website, at sciex.com/customer-documents.

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