

# **Biologics Explorer Software**

Biologics Explorer Software Quick Guide





## Biologics Explorer Software



#### CONTENTS OF THIS GUIDE

### How to Use Biologics Explorer Software

- 1. Activity Node Icons
- 2. Workflow Icons
- 3. Recommendations for Correct Use of the Resources
- How to Start and Save Workflows
- 5. How to Access the Online Help
- 6. How to Visualize Data: Preferences
- 7. How to Visualize Data: Useful Tools
- 8. How to Save Layouts
- 9. How to Export Results
- 10. How to Open Saved Excel Tables from the PDF Report
- 11. How to Open a Saved Workflow File from a PDF Report
- 12. How to Use the Save Snapshots Activity Nodes

# **Activity Node Icons**



#### Pause: Pause the workflow here.

All subsequent tasks stay active.

**Bypass:** Skip this task when running the workflow.

All subsequent tasks continue to run.

**Block:** Stop the workflow.

This and all subsequent tasks become unavailable (gray).



**Trash:** Do not save intermediate data.

When this icon is activated, the results for this particular activity node cannot be opened.

Use this icon to help to save memory after workflow settings have been optimized.

### Workflow Icons



#### **Workflow Completed**

All activity nodes have completed successfully.

#### **Workflow Paused**

Some activity nodes have been completed successfully, but some have not yet started.

#### **Workflow Ready**

No activity nodes have been completed. The workflow is ready to start.

#### **Workflow Error**

Some activity nodes have been completed successfully, but at least one activity node cannot run.

### **Workflow Warning**

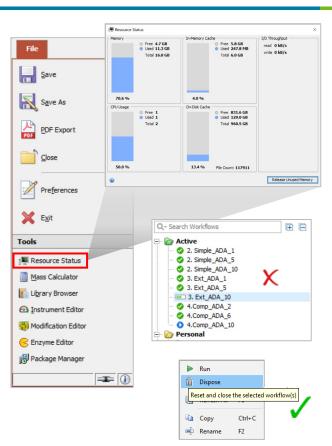
Some activity nodes are not complete.

#### Active

- 2. PeptideMapping\_Simple
- 3. PeptideMapping\_Extended
- 4. PeptideMapping\_Comparative Analysis
- 2. PeptideMapping\_Simple
- 3. PeptideMapping\_Extended

### Recommendations for Correct Use of the Resources





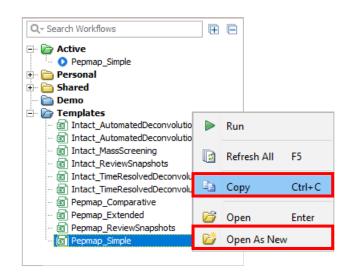
- Some activity nodes are very resource intensive. Processing multiple workflows might use up all resources.
  - Open the **Resource Status** from the **Tools** menu to monitor the resources.
- Follow best practices to make sure that Biologics Explorer software has sufficient memory and computing power:
  - 1. To save memory in optimized workflows, activate the **Trash** icon.
  - 2. To save intermediate results, use the Save Snapshot activity nodes.
  - 3. To review results, use the ReviewSnapshots workflows.
  - 4. Reset or dispose workflows before starting a new analysis.
- The processing computer should have at least 250 GB of free disk space and 6 GB of In-Memory Cache.
  - Files being processed for peptide mapping workflows (other than Batch Processing) should not add up to more than 4 GB.
  - Files being processed for intact protein workflows (other than Batch Processing) should not add up to more than 12 GB.

### How to Start and Save Workflows



### To start a new analysis, do one of the following:

- Move a workflow from the *Templates* folder:
  - 1. Right-click the workflow, and then click Copy.
  - 2. Right-click the **Personal** folder, and then click **Paste**.
- Open a workflow in the *Templates* folder:
  - 1. Double-click the workflow.
  - To save the workflow in the *Personal* folder or the *Shared* folder, use the **Save** icon.
    - Any changed settings will be saved in this version of the workflow.
- Open a workflow from the *Personal* folder:
  - 1. Right-click the workflow, and then click **Open As New**.
  - 2. To save the workflow in the **Personal** folder or the **Shared** folder, use the **Save** icon.
    - Any changed settings will be saved in a new version of the workflow.





Search documentatio

> File tab tools

· Workflow tab · Activity tab Visualizing data

· Changing layouts > Data display

· Statistical analyses

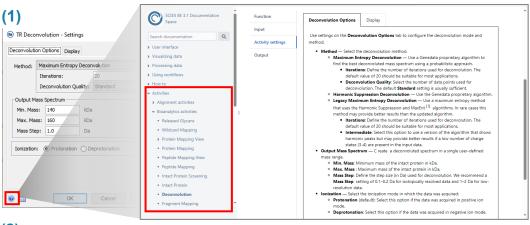
Processing data

> Activities

· File tab

# How to Access the Online Help



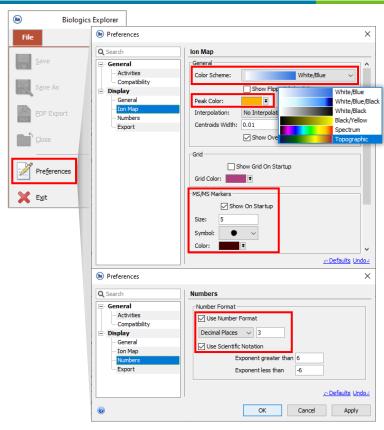


- (2)
- The tab to the right of the File tab is the workflow tab, which is used to create, edit, configure, and run workflows. The tab label contains the name of the active workflow. A status bar in the lower left corner of the window provides information on the progress of The following figure shows the Biologics Explorer user interface when a workflow is loaded and running and the workflow tab is selected. The workflow tab label corresponds to the name of the workflow > Data views and modes A Feature buttons: Additional features giving access to folders and files, support, Help, and log files

- 1. For information about individual activity nodes and their settings, click the ? icon in the lower left corner of the settings window to open the applicable Help pages.
- 2. For information about the user interface, click the ? icon in the upper right corner of the window to open the applicable Help pages.
- For information about how to visualize data, use workflows, or any other topic of interest, expand the sections listed in the Help pages, or type into the Search bar.

### How to Visualize Data: Preferences





 To set how data is shown in Biologics Explorer software, select Preferences on the red File tab.

### Display: Ion Map

- Select the ion map Color Scheme that is shown by default when a data file is opened.
  - To use a different color scheme for an ion map, rightclick the color scale in the ion map window.
- Select the **Peak Color** for the peak boundaries.
- Select the color and symbol for MS/MS data and if they are shown by default when data is opened.

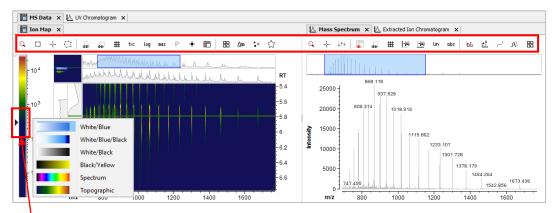
### Display: Numbers

Select the number format to be used by default.

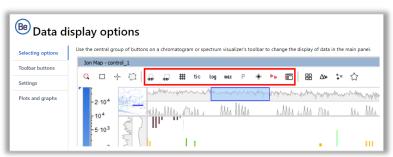


### How to Visualize Data: Useful Tools





- Move the slider to control the noise level that is seen in the ion map.
- Right-click to select the color-scheme.

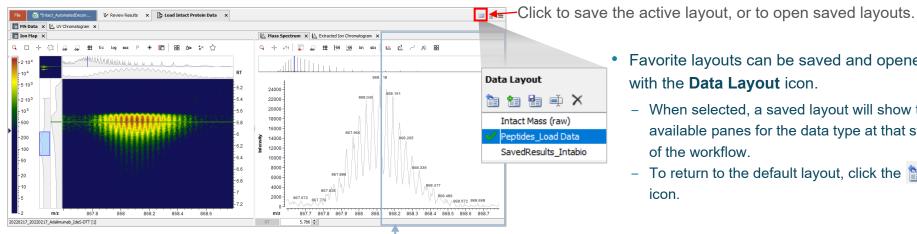


Note: For more information about data display options, use the Online Help.

- Use the Visualizer Tools to control the data display options.
  - The Tool icons are context-dependent.
    - For example, the option to Show/Hide
      MS/MS Precursors (MS) is only available if the raw data contains MS/MS data
- Frequently used Tools of interest:
- Q Zoom Mode
- --- Measurement Tool
- Synchronise Zoom or Synchronise Selection
- Lock Vertical (y-axis) or Horizonal (x-axis) Scale
- Show/Hide Data Points
- Show/Hide MS/MS Precursors
- Set Peak Visibility Mode (None, Peaks, Clusters, Groups)
  - ☆ Save an area of interest as a Bookmark

# How to Save Layouts





Favorite layouts can be saved and opened

- When selected, a saved layout will show the available panes for the data type at that stage of the workflow.
- To return to the default layout, click the <a>h</a> icon.

⑤ Experiment Table x I Group Table x ☐ Cluster Table x 1 Peak Table x 7 € # ∓ # # # # # # # ♠ Name MS Scans MS/MS Scans Peaks Clusters 20210203 Adalimumab tryptic 2ug ECD 4 1 row (1 selected) Peptides Data 🗇 Quantities Coverage Summary

Click to move panes from one tab to another.

To create a new layout:

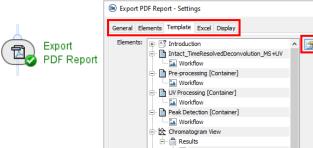
- Click the pane name tab and drag the pane to undock it.
- Move the pane to the new location.
- The location where the undocked pane will be docked is highlighted by a blue box.
- Release the pane when is it in the correct location.
- For suggested layouts for specific data types, refer to the General Guidelines of the workflow of interest.

# How to Export Results



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- The Export PDF Report activity node creates:
  - A PDF document.
    - The layout of the tables in the report is controlled by the number of columns selected on the **Template** tab.
  - An Excel file
    - All columns in a selected table are reported.
  - A workflow xml file
    - The workflow includes the settings that were used to produce the results.

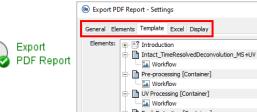




Specify the name and saved location of the exported report.

#### Template tab

- Use the **Edit Selection** icon to specify the **Elements** to be included.
- Excel tab
  - Use the **Edit Selection** icon to specify the **Tables** to be included.



Automated Deconvolution Report, ac3d1.pdf - Adobe Acrobat Reader (32-bit)

Automated Deconv... ×

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# How to Open Saved Excel Tables from the PDF Report

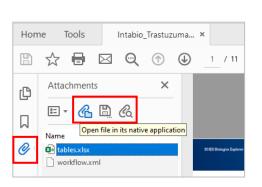


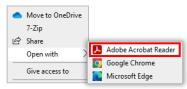


- To open the Excel tables that were saved with the PDF report:
  - 1. After the activity node is complete, open (double-click) Export PDF Report.



- 2. Click the icon to show the report in the PDF viewer.
  - Note: Make sure that Adobe Acrobat (not an internet browser) is the default application.



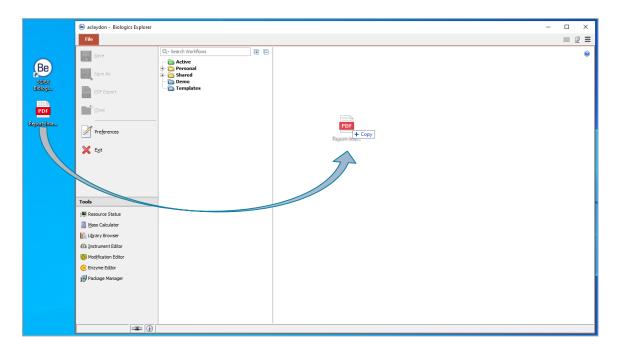


- 3. To show the associated attachments, select the paper-clip icon in the opened PDF Report.
- 4. To open or save the Excel document, click on the *tables.xlsx* attachment and use the applicable icon.

# How to Open a Saved Workflow File from a PDF Report



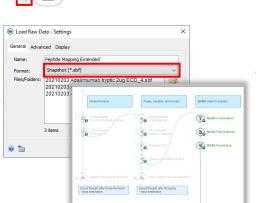
- To open the workflow xml file that was saved with the PDF report:
  - Drag the saved PDF into the workflow space in Biologics Explorer software.



# How to Use the Save Snapshots Activity Nodes



- The Save Snapshot activity nodes store intermediate results at different stages of a workflow.
  - A Snapshot (sbf) file is saved for every sample processed in the workflow.



Load Results Snapshots

Review Results

14 of 16

• To use a Save Snapshot activity node to store intermediate results:

- Deactivate the Block icon.
- Select or add the folders where the results will be stored.
- To use intermediate results, such as from Pre-Processed snapshots:
  - Select the sbf file in the Load Raw Data or Load Intact Protein Data activity node, and then select Format: Snapshot (\*.sbf).
  - Activate the **Bypass** icon on the other activity nodes in the workflow that are before the point where the sbf file was saved.
- To review results after an applicable mapping step, such as *Peptide Mapping*, *Protein Mapping* or *Targeted Mass Search*:
  - Open the sbf file in the *Load Snapshots* activity node in a \_ReviewSnapshots workflow.



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