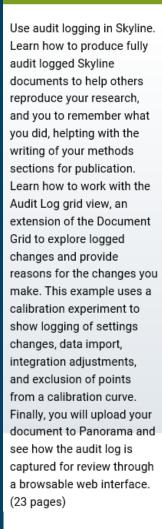
# Skyline 使用

—— 筛选合适的肽段和离子

生物制药小组

#### **Review the latest** Skyline Tutorial Webinar

Ion Mobility Spectrum Filtering in Skyline



Download & Install:

Skyline 21.1 - 64 bit

Skyline-daily (beta)

VIDEO TRAILER >

**External Tools** 



# 目录

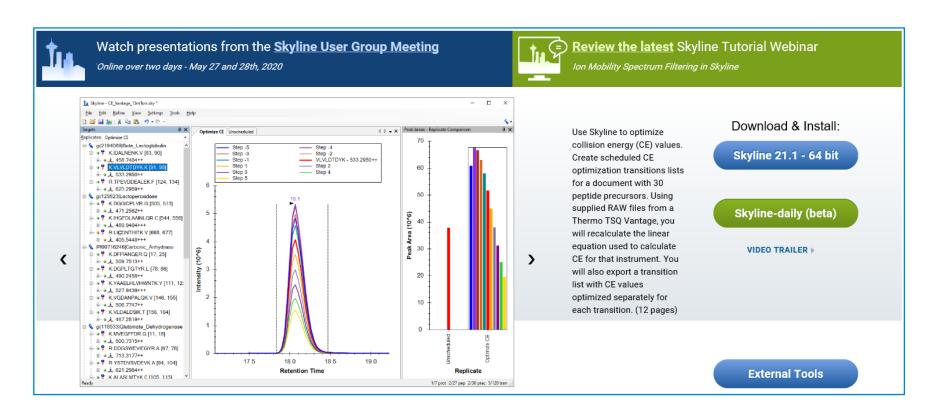
- 1. Skyline 软件安装
- 2. Skyline 筛选特征肽段
- 3. Skyline 优化 CE

1. Skyline 软件安装

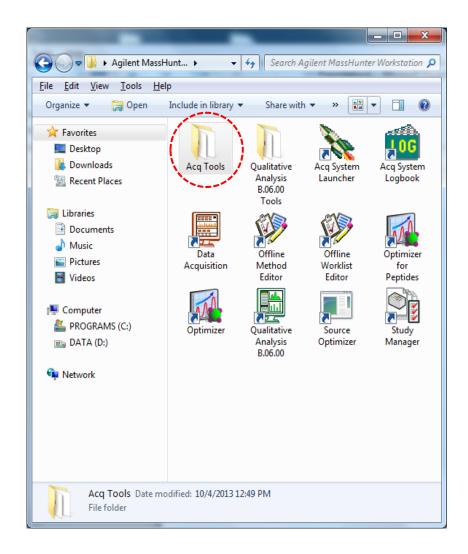
## Skyline 软件安装

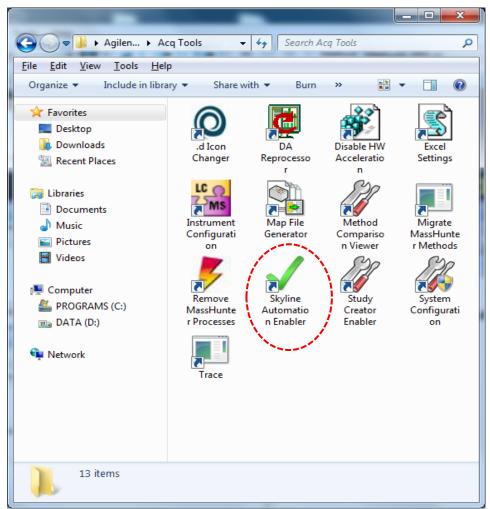
1. 在 Google 上搜索 Skyline peptide,进入下载网页,下载 skyline(有安装包),安装。

https://skyline.ms/project/home/software/Skyline/begin.view



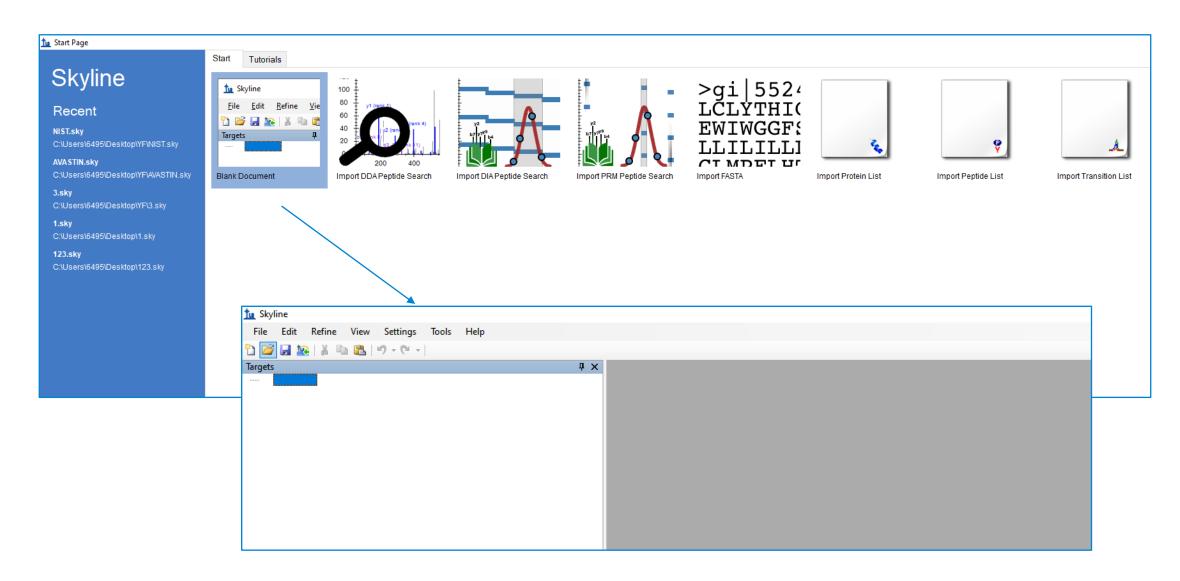
### 2. 安装后在 Agilent MassHunter 中查看



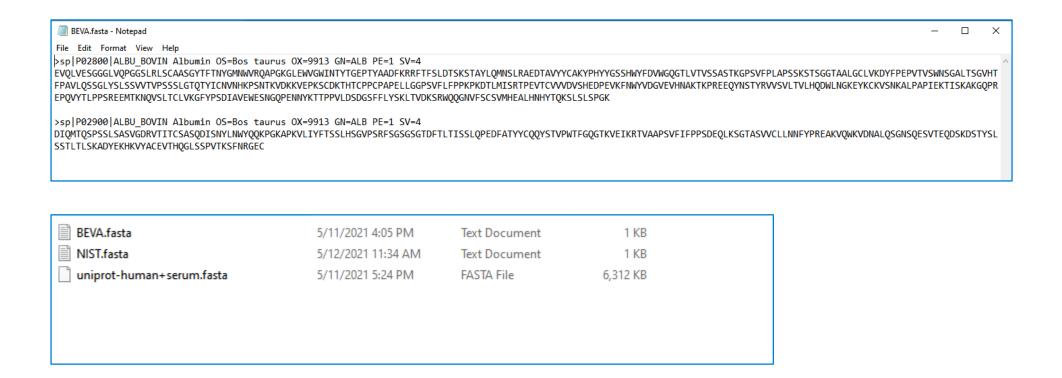


2. Skyline 筛选特征肽段

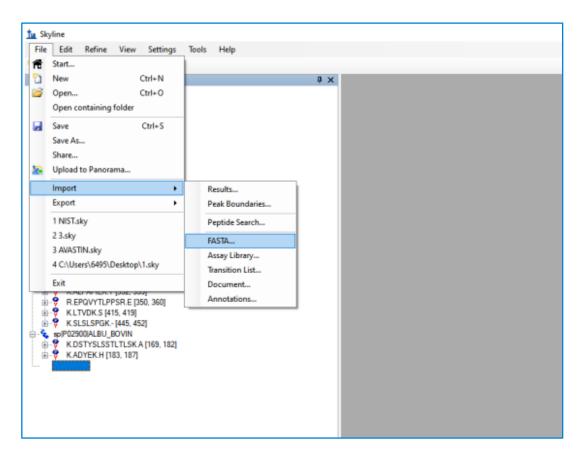
### 1. 打开 Skyline 软件

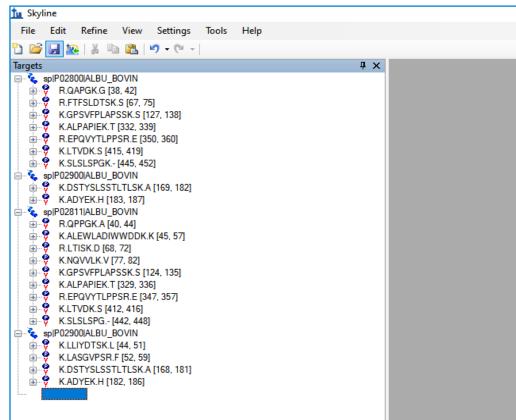


#### 2. 筛选人血液中的特征肽段

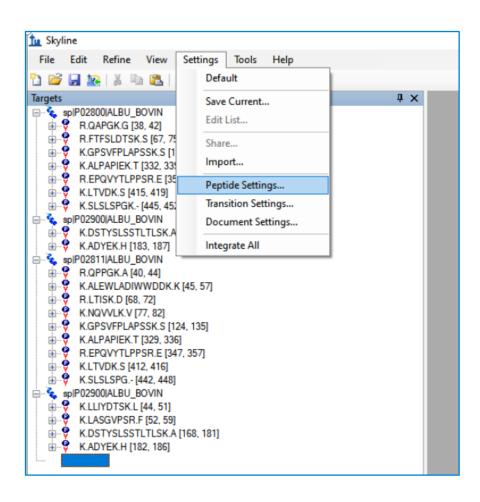


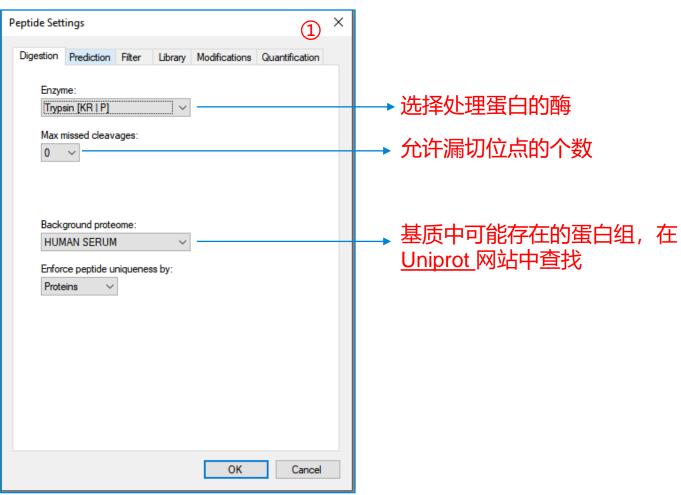
(1) 将需要定量的抗体氨基酸序列转化成如图 fasta格式,这个格式可以直接导入到 skyline 软件中;另外,需要在 <a href="https://www.uniprot.org/">https://www.uniprot.org/</a> 网站下载人血清蛋白库,便于查找目的蛋白特征肽段。





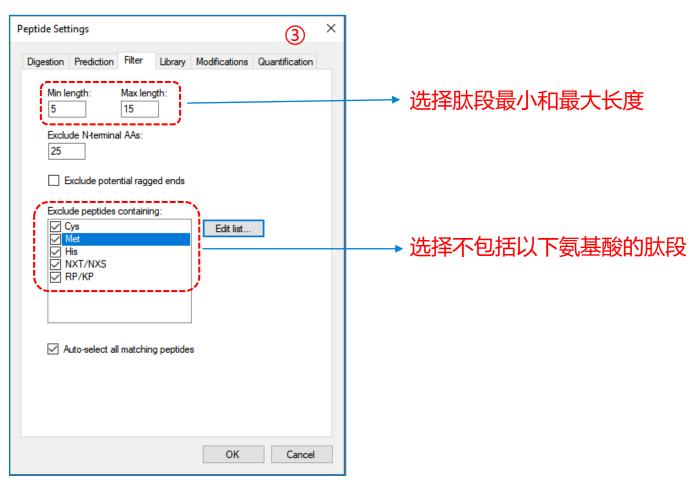
(2) 打开Skyline,导入目的蛋白序列。



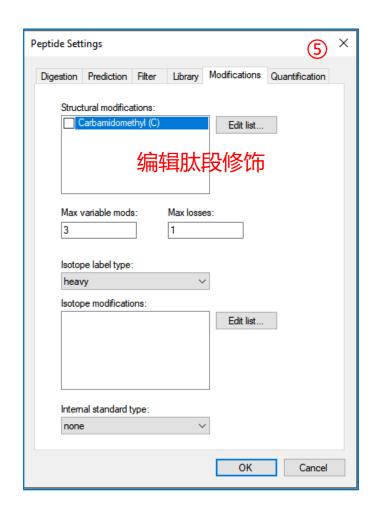


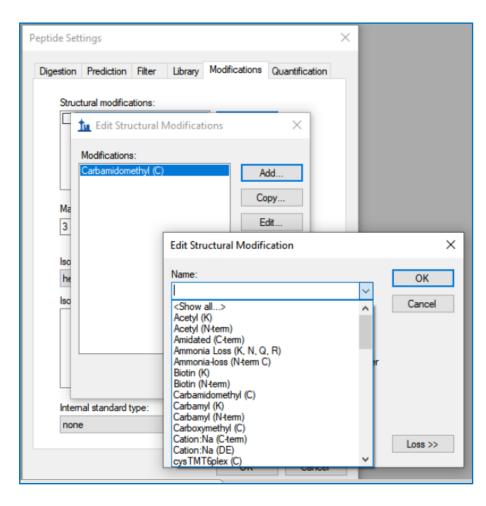
(3) 打开Skyline,导入目的蛋白序列;在 Settings 中选择 Peptide Settings 设置参数。





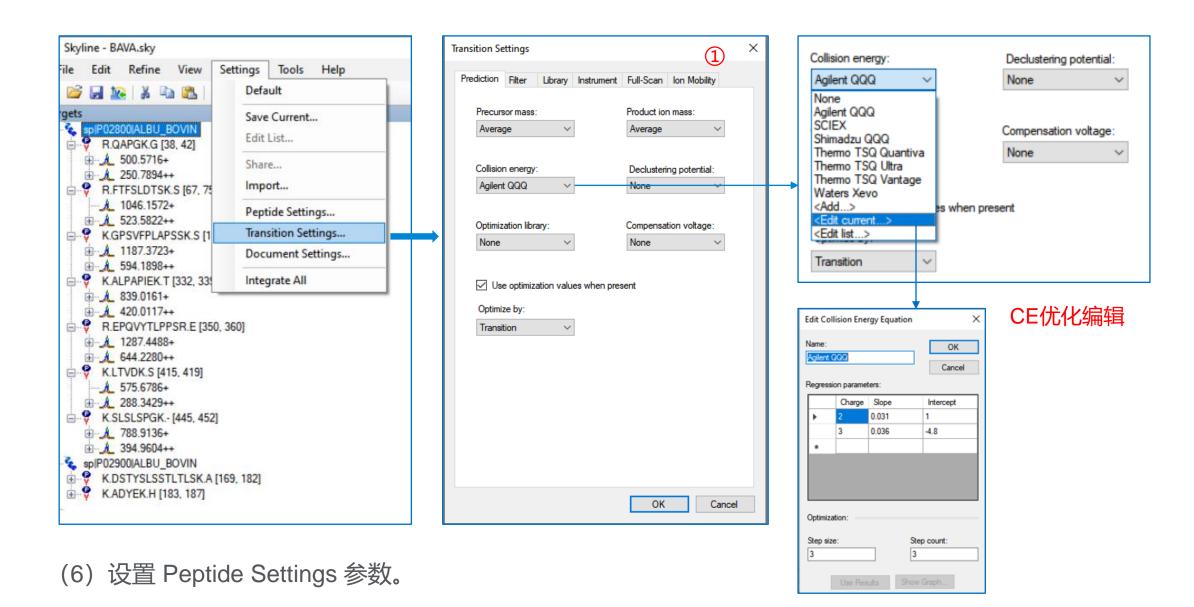
(4) 设置 Peptide Settings 参数。

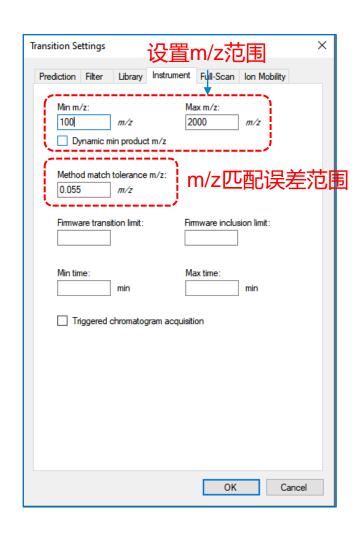


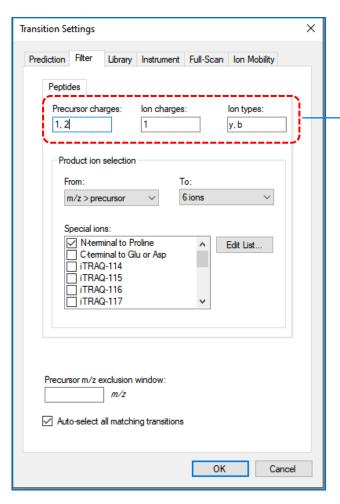


可以选择修饰,但是这次我们需要的肽段最好不含修饰。

(5) 设置 Peptide Settings 参数。



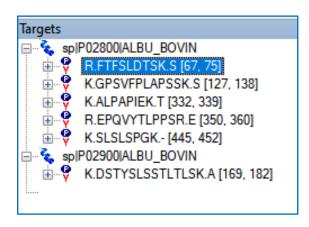




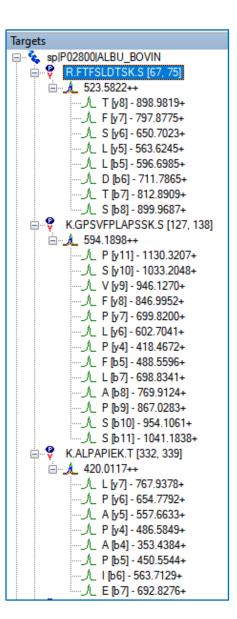
(6) 设置 Peptide Settings 参数。

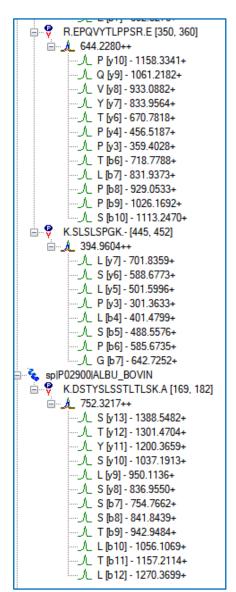
→ MS 电荷 MSMS离子电荷 离子种类

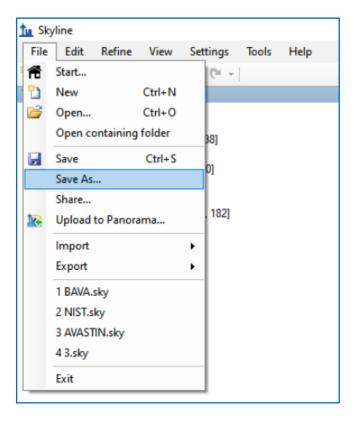
#### 3. 特征肽段



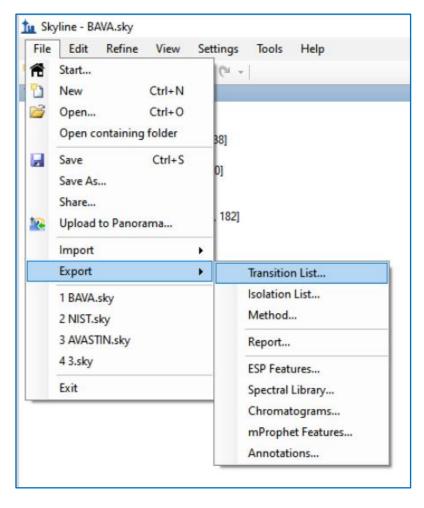
- (1) 依据刚才设置的 Peptide Settings 和Transition Setting 参数,初步筛选出 Avastin 目的 肽段;
  - (2) 保存筛选的肽段。

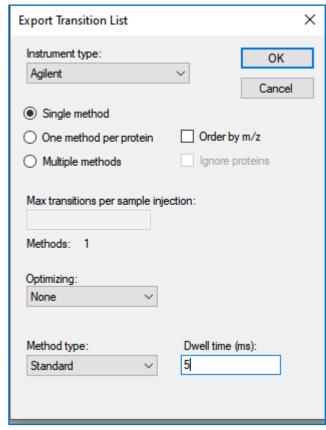


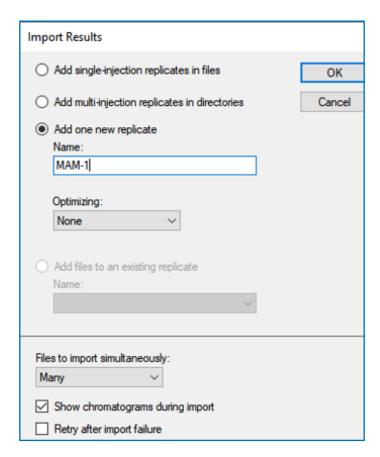




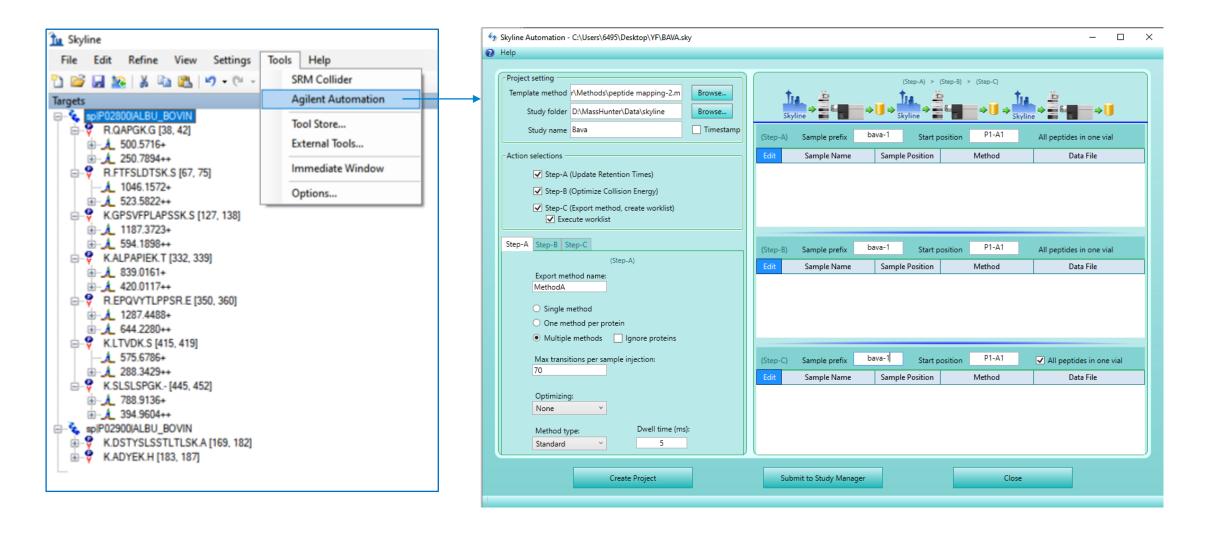
## 3. Skyline 优化 CE

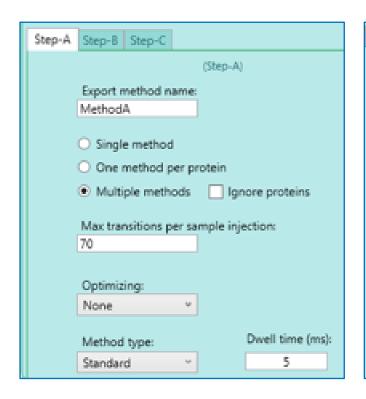


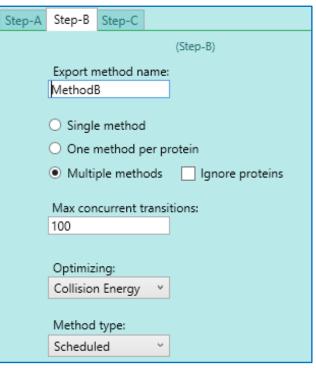


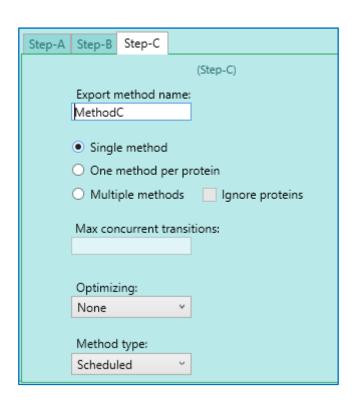


1. 选取一个肽段,新建,输入肽段,另存为;在Tools下选择 Automation



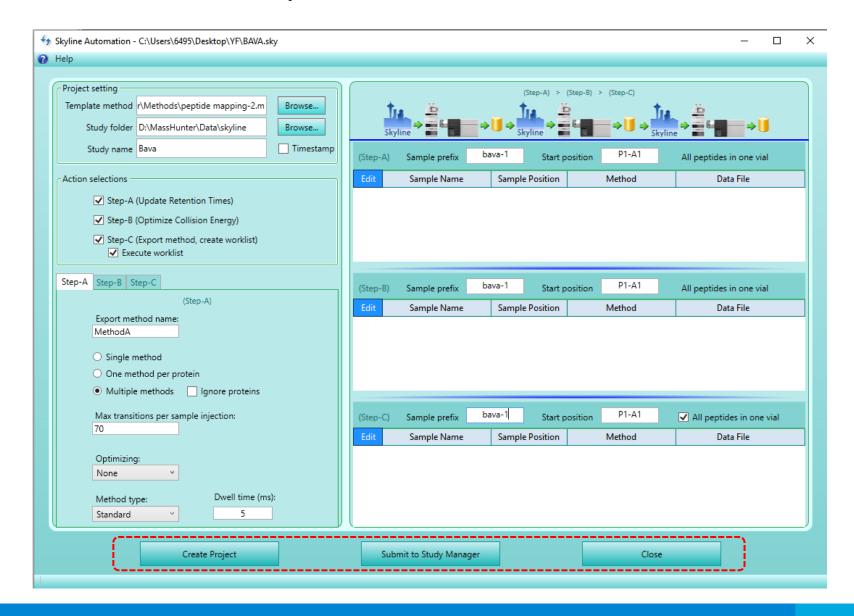




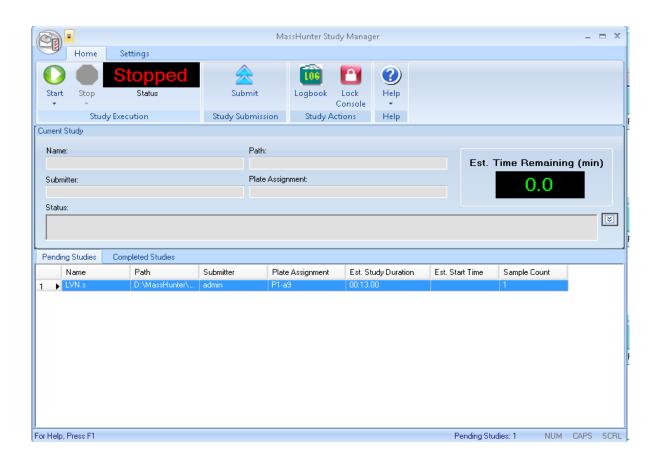


编辑 Step-A, Step-B 和 Step-C 的方法。

#### 设定方法后, Create Project, 优化CE。



#### Study Manager 启动



- 1. 选择Start 开始计算;
- 2. 完成后,打开Skyline文档并确认导入步骤 A-C 的结果,确认一切正常
- 3. 关闭Study Manager和Automation界面,进入 MussHunter。