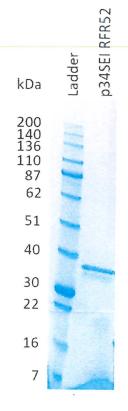


Alderley Parl Macclesfield Cheshire SK10 4TC

17 July 2020

#### **SDS PAGE Analysis**



- Novex Wedgewell 10-20% Tris-glycine 12 well gel (Invitrogen, XP10202BOX), reducing gel
- Ladder: 3 μL RunBlue TriColour pre-stained (Expedeon, NXA6050)
- 1.3 µg of protein loaded
- Protein purity >90%

#### Peptide Mapping of Purified band using SCIEX x500b

The bands were reduced, alkylated and digested with trypsin and chymotrypsin. The resultant peptides were run on the Exion LC coupled to the X500B mass spectrometer, a 10 minute reversed phase gradient was used. The data was searched against Swissprot using Mascot Daemon and the sequences above were searched using the BioPharmaView software to determine coverage. Yellow highlighted sequence equates to peptides identified by mass spec.

# 6His-TEV-p34SEI sequence coverage = 71.3%

MGHHHHHHGENLYFQGLSKGLKRKREEEEEKEPLAVDSWWLDPGHTAVAQAPPAVASSSLFDLSVLKLHHSLQQSEPDLRHLVLVVNTLR RIQASMAPAAALPPVPSPPAAPSVADNLLASSDAALSASMASLLEDLSHIEGLSQAPQPLADEGPPGRSIGGAAPSLGALDLLGPATGCL LDDGLEGLFEDIDTSMYDNELWAPASEGLKPGPEDGPGKEFAPELDEAELDYLMDVLVGTQALERPPGPGR

Swissprot match to SRTD1\_HUMAN.



Alderley Park Macclesfield Cheshire SK10 4TG UK

17 July 2020

# QC Document of 6His-TEV-p34SEI

### Construct

6xHis-tag

TEV cleavage sequence

>6His-TEV-p34SEI (E. coli expression = pET28b)

MGHHHHHHGENLYFQGLSKGLKRKREEEEEKEPLAVDSWWLDPGHTAVAQAPPAVASSSLFDLSVLKLHHSLQ QSEPDLRHLVLVVNTLRRIQASMAPAAALPPVPSPPAAPSVADNLLASSDAALSASMASLLEDLSHIEGLSQAPQP LADEGPPGRSIGGAAPSLGALDLLGPATGCLLDDGLEGLFEDIDTSMYDNELWAPASEGLKPGPEDGPGKEEAPE LDEAELDYLMDVLVGTQALERPPGPGR

Number of amino acids: 251

Molecular weight: 26492.62

Theoretical pI: 4.54

### Extinction coefficients:

Extinction coefficients are in units of  $M^{+}$  cm $^{-1}$ , at 280 nm measured in water.

Ext. coefficient 20970

Abs 0.1% (=1 g/1) 0.792, assuming all pairs of Cys residues form cystines

Ext. coefficient 20970

Abs 0.1% (=1 g/1) 0.792, assuming all Cys residues are reduced

#### Summary

### 6His-TEV-p34SEI

## 0.074 mg/mL

12 x 500 μL (444 μg)

Buffer: 20 mM Tris/HCl pH 8.0, 150 mM NaCl, 5% glycerol, 0.5 mM TCEP, 0.5% DDM

Batch No. RFR52

ak Protoine Ital

0.0n4m/pd x 100, mc

VAT registration 205841230 Company Registration 9265797