

## Pen peptide certificate of analysis (CoA)

**Product:** AC-SELANK-NH2  
**Source:** Hybrid synthesis (recombinant using peptide secretion system and chemical synthesis)  
**Intended use:** For stability, viability and activity testing only.  
**Order number:** **Lot:** 25AUG21LANK  
**Production:** 08/2025 **Expiry:** 08/2027  
**Formulation:** 0.2 µm-filtered solution in 20mM glycine, 200mM Mannitol, 20mM NaH<sub>2</sub>PO<sub>4</sub>, pH 6; m-cresol 1 mg/ml, glycerol 2 mg/ml (when liquid)

**Protein/peptide concentration per 3 ml cartridge:** 15 mg

<u>Release Testing:</u>	<u>Specification</u>	<u>Lot Result</u>
<b>Purity:</b>	≥ 97%	> 98%
<b>Identity:</b>	Complies	Complies
<b>Sterility:</b>	Sterile	Complies
<b>Endotoxin level:</b>	< 10 EU/mg	< 0.20 EU/mg
<b>Host-cell DNA</b>	≤ 200 ng/mg	Complies (1.1 ng/mg)

Activity was determined using a Nb2-11 cell proliferation assay.

Purity was determined by SDS PAGE and coomassie stain (under reducing and non-reducing conditions).

Identity was confirmed by *end-of-production* DNA sequencing and N-terminal protein sequencing.

Sterility test of vial product was performed according to Eur.Pharm. (Inoculation method).

Endotoxin was determined using the gel clot assay according to Eur.Pharm.

Host-cell DNA was determined using fluorimetric assay.

### Handling Instructions:

**General usage:** Open cap, clean the rubber stopper with disinfectant napkin or other cleaning disinfection method / material. Puncture rubber stopper with sterile needle by screwing needle on. Remove the plastic protective cover. Set the index to physician prescribed position, remove the pink plastic cover and let out the air from the cartridge by several button presses into the air. Put on the plastic protective cover back.

**Using liquid product:** Liquid products are ready to use according to physician recommendations.

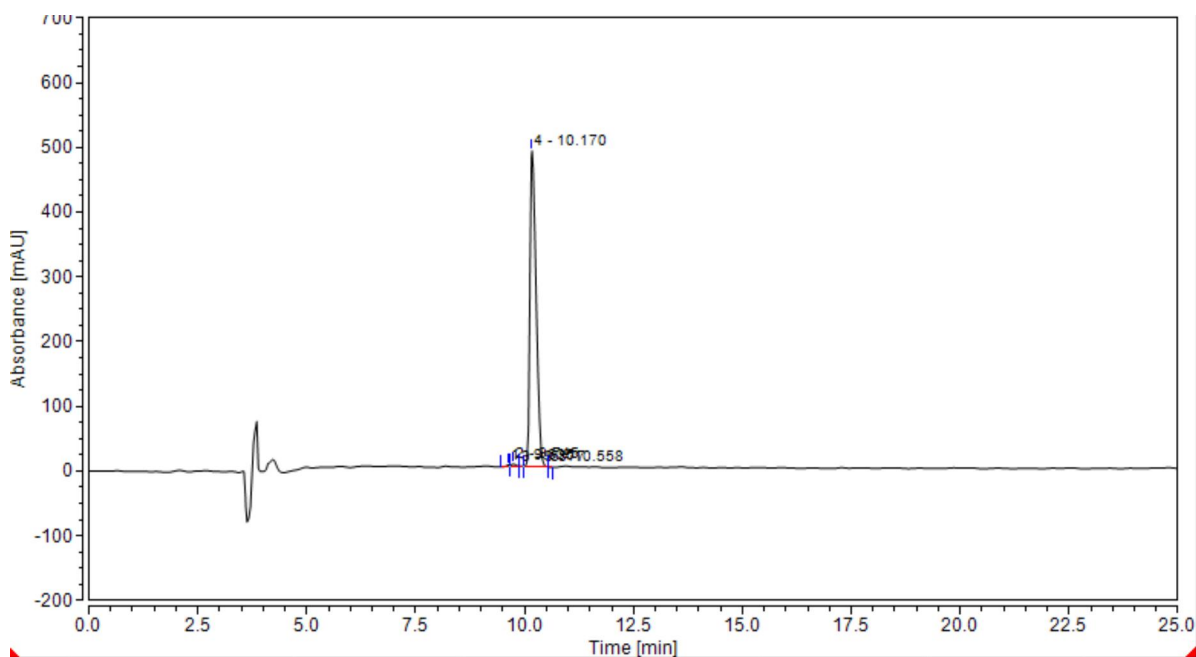
**Storage and stability:** Store material at +2 - +8°C. **Do not freeze!**

### Quality Statement:

This product is manufactured, tested and realized in compliance with the relevant GMP-guidelines. No animal- or human-derived materials were used during manufacturing. USP chapter <1043> “ancillary materials for cell, gene, and tissue-engineered product” has been considered in the design of this product.

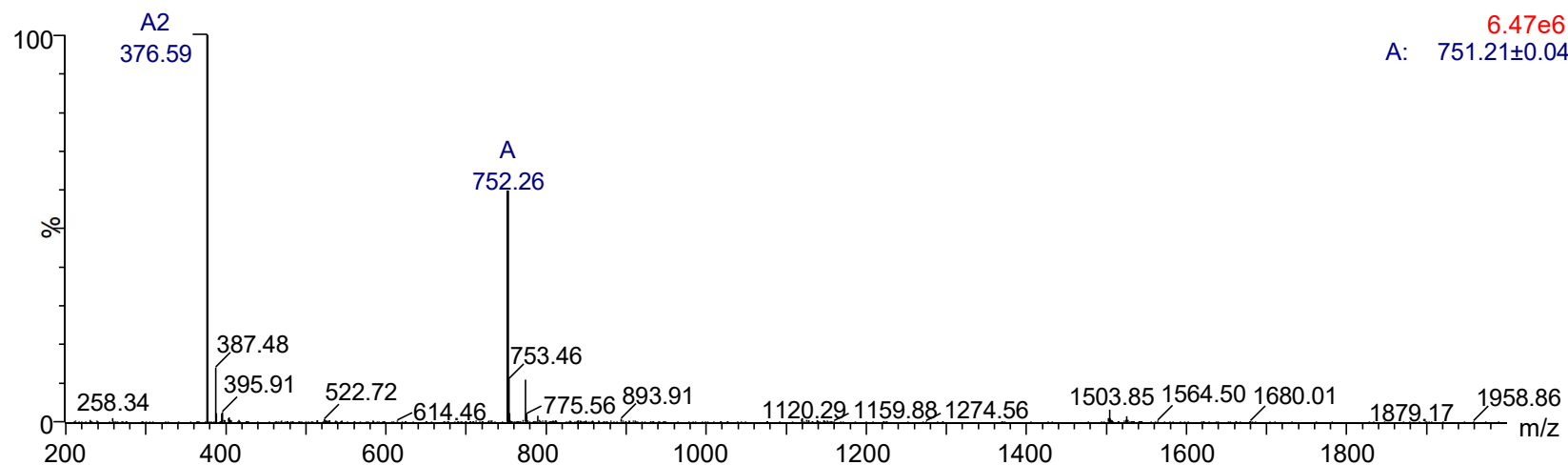
## Sample Information

Product Name : Selank  
 Lot. No : 202508  
 Sequence : Thr-Lys-Pro-Arg-Pro-Gly-Pro  
 Column : Welch, XB-C18, (4.6mm i.d., 250 mm L)  
 Buffer : A: 0.1% TFA in Acetonitrile B: 0.1% TFA in H<sub>2</sub>O  
 Gradient : 6-30% in 25min  
 Flow rate : 1.0ml/min  
 Wavelength : 220nm  
 Dissolution method : 100% H<sub>2</sub>O  
 Injection date : 21/08/2025 10:23:18 AM



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount n.a.
1		9.635	0.293	3.137	0.36	0.63	n.a.
2		9.745	0.628	4.385	0.77	0.88	n.a.
3		9.877	0.135	1.224	0.17	0.25	n.a.
4		10.170	80.040	488.615	98.67	98.12	n.a.
5		10.558	0.019	0.609	0.02	0.12	n.a.
Total:			81.116	497.970	100.00	100.00	

# MS Spectrum



6.47e6  
A: 751.21±0.04

Dissolution	:0.1%HCOOH+ACN	Interface	:ESI	Prerod Bias	:+3.5kv
Date	:2025/08/21 16:01:55	Nebulizing Gas Flow	:500L/hr	Detector	:-0.2kv
Injection	:2.5ul	CDL Temp	:400C	T.Flow	:0.35ml/min
Block Temp	:150	CDL Volt	:+15V	B.conc	:50%H2O/50%MEOH

Product Name : Selank  
 Sequence : Thr-Lys-Pro-Arg-Pro-Gly-Pro  
 Lot.No : 202508  
 Theoretical : 751.89  
 Observed : 751.17