

## Certificate of Analysis

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**Product Name:** SP 10  
**CAS Number:** 882157-88-2

**Catalog No.:** 7322      **Batch No.:** 1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>56</sub>H<sub>94</sub>N<sub>14</sub>O<sub>20</sub>S  
**Batch Molecular Weight:** 1315.5  
**Physical Appearance:** White lyophilised solid  
**Net Peptide Content:** 81%  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Ser-Thr-Ser-Gln-Lys-Ser-Ile-Val-Ala-Tyr-Thr-Met

### 2. ANALYTICAL DATA

**HPLC:** Shows 99% purity  
**Mass Spectrum:** Consistent with structure

### 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala	1.00	0.96	Lys	1.00	1.02
Arg			Met	1.00	0.97
Asx			Phe		
Cys			Pro		
Glx	1.00	0.98	Ser	3.00	3.04
Gly			Thr	2.00	1.96
His			Trp		
Ile	1.00	0.86	Tyr	1.00	1.03
Leu			Val	1.00	0.85

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** SP 10  
CAS Number: 882157-88-2**Catalog No.:** 7322 **Batch No.:** 1**Description:**

Peptide originally derived from SARS-CoV Spike (S) protein; corresponds to amino acid residues 668 to 679. Highly potent inhibitor of SARS-CoV S protein and ACE2 interaction (IC<sub>50</sub> = 1.88 nM in biochemical assay). Inhibits interaction of SARS-CoV S protein and Vero E6 cells in vitro. Please note, this peptide displays 80% sequence identity to homologous site on SARS-CoV-2 S-protein (residues 689-697).

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>56</sub>H<sub>94</sub>N<sub>14</sub>O<sub>20</sub>S  
Batch Molecular Weight: 1315.5  
Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Ser-Thr-Ser-Gln-Lys-Ser-Ile-Val-Ala-Tyr-  
Thr-Met

**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water  
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Net Peptide Content:** 81% (Remaining weight made up of counterions and residual water).**Counter Ion:** TFA**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

Ho *et al* (2006) Design and biological activities of novel inhibitory peptides for SARS-CoV spike protein and angiotensin-converting enzyme 2 interaction. *Antiviral Res.* **69** 70. PMID: 16337697.

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