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DATASHEET

SBP1

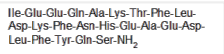
Product overview

Name	SBP1
Cat No	HB9918
Biological description	23-aminoacid peptide fragment of the human ACE2 receptor PDα1 helix (peptidase domain α1 helix). SBP1 binds insect-derived SARS-CoV-2 RBD (receptor binding domain) with micromolar affinity ($K_d = 1.3\mu\text{M}$ in a biochemical assay). The sequence of SBP1 is fully proteinogenic, and is not expected to be immunogenic.
Biological action	Peptide
Purity	>98%
Description	ACE2 derived peptide which binds SARS-CoV-2 RBD

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (1 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Molecular Weight	2802.45
Chemical structure	
Molecular Formula	$\text{C}_{127}\text{H}_{185}\text{N}_{31}\text{O}_{41}$
SMILES	<chem>O=C(N[C@@H](CCC(O)=O)C(N[C@@H](CCC(O)=O)C(N[C@@H](CCC(N)=O)C(N[C@@H](C)C(N[C@@H](CCCCN)C(N[C@@H]([C@H](O)C)C(N[C@@H](CC1=CC=CC=C1)C(N[C@@H](CC(C)C)C(N[C@@H](CC(O)=O)C(N[C@@H](CCCCN)C(N[C@@H](CC2=CC=CC=C2)C(N[C@@H](CC(N)=O)C(N[C@@H](CC3=CNC=N3)C(N[C@@H](CCC(O)=O)C(N[C@@H](C)C(N[C@@H](CCC(O)=O)C(N[C@@H](CC(O)=O)C(N[C@@H](CC(C)C)C(N[C@@H](CC4=CC=CC=C4)C(N[C@@H](CC5=CC=C(C=C5)O)C(N[C@@H](CCC(N)=O)C(N[C@@H](CO)C(N)=O)=O)=O)=O)=O)=O)=O)=O)=O)[C@H]([C@@H](C)CC)N</chem>
InChiKey	VTVUQJBFPPIBF-SDBILGLNSA-N
Appearance	White solid

References

Investigation of ACE2 N-terminal fragments binding to SARS-CoV-2 Spike RBD

Zhang et al (2020) bioRxiv This article is a preprint and has not been certified by peer review