

Product Name: SAH-SOS1A

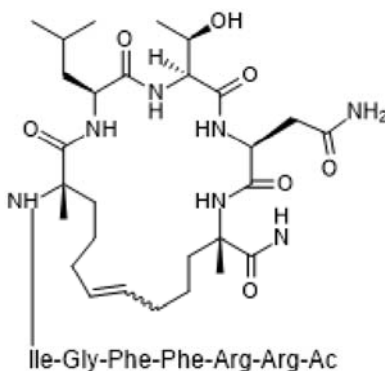
Catalog No.: 6920

Batch No.: 1

CAS Number: 1652561-87-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₀H₁₅₉N₂₇O₂₈
Batch Molecular Weight: 2187.53
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:



2. ANALYTICAL DATA

HPLC: Shows 95.3% purity
Mass Spectrum: Consistent with structure

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

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Description:

SAH-SOS1A is a KRas/son of sevenless 1 (SOS1) interaction inhibitor. Binds within nucleotide binding pocket of KRas (K_d values are 106 - 176 nM for wild type KRas and various KRas mutants). Inhibits nucleotide binding to KRas in a concentration dependent manner. Displays cytotoxicity in KRas-driven cancer cell lines and inhibits downstream ERK-MAPK signaling. Cell permeable.

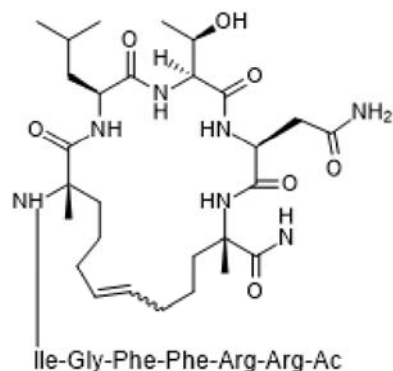
Physical and Chemical Properties:

Batch Molecular Formula: $C_{100}H_{159}N_{27}O_{28}$

Batch Molecular Weight: 2187.53

Physical Appearance: White lyophilised solid

Peptide Sequence:



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.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

References:

Leshchiner *et al* (2015) Direct inhibition of oncogenic KRAS by hydrocarbon-stapled SOS1 helices. *Proc.Natl.Acad.Sci.USA.* **112** 1761. PMID: 25624485.

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