

Certificate of Analysis

Product Name: Stoppin 2
CAS Number: 1069134-09-3

Catalog No.: 4851 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{141}H_{223}N_{47}O_{32}S_7$
Batch Molecular Weight: 3313.03
Physical Appearance: White lyophilised solid
Net Peptide Content: 100%
Counter Ion: TFA
Solubility: Soluble to 0.10 mg/ml in 10% DMSO / water
Storage: Store at -20°C
Peptide Sequence:

Cys-Tyr-Ser-Phe-Asp-Cys-Leu-Trp-Lys-Cys-
Leu-Ala-Met-Gly-Phe-Arg-Arg-Gly-Lys-Cys-
Arg-Arg-Arg-Lys-Cys-Lys-Cys

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
Mass Spectrum: Consistent with structure

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

Product Name: Stoppin 2
CAS Number: 1069134-09-3

Catalog No.: 4851 **Batch No.:** 1

Description:

Competitive inhibitor of the p53-MDM2/MDMX interaction ($K_d = 493$ nM for MDM2). Kills tumor cells in a p53-dependent manner.

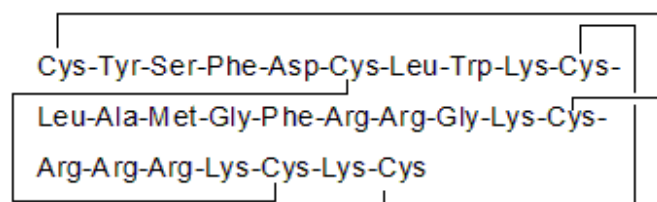
Physical and Chemical Properties:

Batch Molecular Formula: $C_{141}H_{223}N_{47}O_{32}S_7$

Batch Molecular Weight: 3313.03

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.10 mg/ml in 10% DMSO / 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. This peptide is insoluble in water, but is soluble to 0.1mg/ml in 10% DMSO/water. To achieve this concentration, start with a concentration of 1mg/ml in neat DMSO and add water slowly to reach 0.1mg/ml in 10% DMSO/water. The vial should be vortexed vigorously after each solvent portion addition.

Net Peptide Content: 100% (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 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:

Li *et al* (2008) Turning a scorpion toxin into an antitumor miniprotein. *J.Am.Chem.Soc.* **130** 13546. PMID: 18798622.

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel: +1 612 379 2956