

Product Name: CTCE 9908

Catalog No.: 5130

Batch No.: 3

CAS Number: 1030384-98-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈₆H₁₄₇N₂₇O₂₃
Batch Molecular Weight: 1927.27
Physical Appearance: White lyophilised solid
Net Peptide Content: 68%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Lys-Gly-Val-Ser-Leu-Ser-Tyr-Arg
} Lys- NH₂
} Lys-Gly-Val-Ser-Leu-Ser-Tyr-Arg

2. ANALYTICAL DATA

HPLC: Shows 97.4% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys	3.00	3.18
Arg	2.00	2.01	Met		
Asx			Phe		
Cys			Pro		
Glx			Ser	4.00	3.92
Gly	2.00	2.00	Thr		
His			Trp		
Ile			Tyr	2.00	2.01
Leu	2.00	1.81	Val	2.00	1.98

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

Product Name: CTCE 9908

Catalog No.: 5130

Batch No.: 3

CAS Number: 1030384-98-5

Description:

CXCR4 antagonist; induces mitotic catastrophe in ovarian cancer cells. Displays additive cytotoxic effects when given with taxol (Cat. No. 1097). Enhances the efficacy of docetaxel (Cat. No. 4056) in a mouse model.

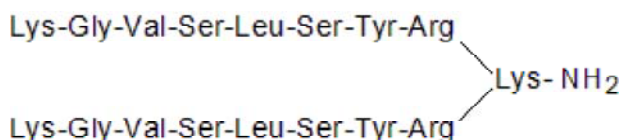
Physical and Chemical Properties:

Batch Molecular Formula: C₈₆H₁₄₇N₂₇O₂₃

Batch Molecular Weight: 1927.27

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 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: 68% (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:

Hassan *et al* (2011) CXCR4 peptide antagonist inhibits primary breast tumor growth, metastasis and enhances the efficacy of anti-VEGF treatment or docetaxel in a transgenic mouse model. *Int.J.Cancer*. **129** 225. PMID: 20830712.

Kwong *et al* (2009) An antagonist of the chemokine receptor CXCR4 induces mitotic catastrophe in ovarian cancer cells. *Mol.Cancer Ther.* **8** 1893. PMID: 19567818.

Faber *et al* (2007) The many facets of SDF-1alpha, CXCR4 agonists and antagonists on hematopoietic progenitor cells. *J.Biomed.Biotechnol.* **2007** 26065. PMID: 17541466.

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