

# Certificate of Analysis

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**Product Name:** CTCE 9908

**Catalog No.:** 5130

**Batch No.:** 6

CAS Number: 1030384-98-5

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>86</sub> H <sub>147</sub> N <sub>27</sub> O <sub>23</sub>
<b>Batch Molecular Weight:</b>	1927.27
<b>Physical Appearance:</b>	White lyophilised solid
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 2 mg/ml in water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	Lys-Gly-Val-Ser-Leu-Ser-Tyr-Arg Lys-Gly-Val-Ser-Leu-Ser-Tyr-Arg Lys- NH <sub>2</sub>

## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 97.2% purity
<b>Mass Spectrum:</b>	Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys	3.00	2.95
Arg	2.00	2.02	Met		
Asx			Phe		
Cys			Pro		
Glx			Ser	4.00	3.98
Gly	2.00	2.02	Thr		
His			Trp		
Ile			Tyr	2.00	2.03
Leu	2.00	2.03	Val	2.00	2.00

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

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Tel: +1 612 379 2956

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**Catalog No.:** 5130

**6**

CAS Number: 1030384-98-5

**Description:**

CTCE 9908 is a 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.

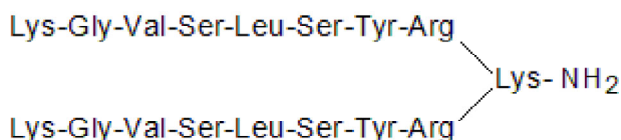
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>86</sub>H<sub>147</sub>N<sub>27</sub>O<sub>23</sub>

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 in lyophilized form. It may appear as a solid, gel or film and 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.

**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 doce. 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.

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