



Certificate of Analysis

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Product Name: C 21 Catalog No.: 5128 Batch No.: 1

CAS Number: 1229236-78-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{90}H_{161}CIN_{36}O_{24}$

Batch Molecular Weight: 2166.94

Physical Appearance: White lyophilised solid

Net Peptide Content: 62% Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ac-Ser-Gly-[N⁵-(2-Chloro-1-iminoethyl)]-Orn-

Gly-Lys-Gly-Lys-Gly-Leu-Gly-Lys-Gly-

Gly-Ala-Lys-Arg-His-Arg-Lys-Val

2. ANALYTICAL DATA

HPLC: Shows 95% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	l Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	1.08	Lys	5.00	4.93
Arg	2.00	2.25	Met		
Asx			Phe		
Cys			Pro		
Glx			Ser	1.00	0.90
Gly	8.00	8.06	Thr		
His	1.00	1.04	Trp		
lle			Tyr		
Leu	1.00	0.88	Val	1.00	1.12

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





Product Information

Print Date: May 8th 2014

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CAS Number: 1229236-78-5

Description:

Selective protein arginine methyltransferase 1 (PRMT1) inhibitor (IC_{50} = 1.8 μ M). Exhibits five-fold selectivity for PRMT1 over PRMT6 and >250-fold selectivity over PRMT3 and CARM1.

Physical and Chemical Properties:

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Ser-Gly-[N⁵-(2-Chloro-1-iminoethyl)]-Orn-Gly-Lys-Gly-Gly-Lys-Gly-Leu-Gly-Lys-Gly-Gly-Ala-Lys-Arg-His-Arg-Lys-Val **Storage:** Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

This product is supplied as a lyophilised solid and may be very hard to visualise. 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: 62% (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).

References:

Obianyo *et al* (2010) A chloroacetamidine-based inactivator of protein arginine methyltransferase 1: design, synthesis, and in vitro and in vivo evaluation. Chembiochem *11* 1219. PMID: 20480486.

Obianyo and Thompson (2012) Kinetic mechanism of protein arginine methyltransferase 6 (PRMT6). J.Biol.Chem. **287** 6062. PMID: 22219200.

