

Product Name: MAIT 203

Catalog No.: 6382

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₆H₁₇₇N₄₃O₂₉
Batch Molecular Weight: 2517.83
Physical Appearance: White lyophilised solid
Net Peptide Content: 65%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Z-Ala-Gly-Glu-Ala-Cpa-Tyr-Glu-Gly-Gly-Gly-Gly-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	2.00	1.92	Lys	2.00	2.01		
Arg	6.00	5.99	Met				
Asx			Phe				
Cys			Pro				
Glx	3.00	2.98	Ser				
Gly	6.00	6.02	Thr				
His			Trp				
Ile			Tyr	1.00	1.00		
Leu			Val				

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

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Description:

Inhibits interaction of APC and Asef (RhoGEF4). Inhibits colorectal cancer cell migration and invasion in vitro.

Physical and Chemical Properties:

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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: 65% (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:

Jiang *et al* (2017) Peptidomimetic inhibitors of APC-Asef interaction block colorectal cancer migration. *Nat.Chem.Biol* **13** 994. PMID: 28759015.

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