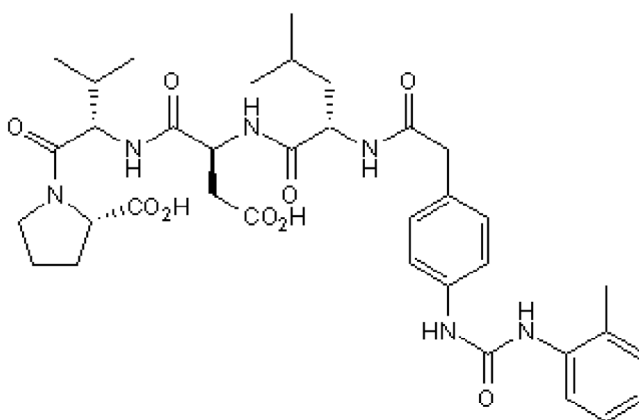


Product Name: BIO 1211
CAS Number: 187735-94-0

Catalog No.: 3910 **Batch No.:** 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₄₈N₆O₉
Batch Molecular Weight: 708.8
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 99.0 % purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg				Met			
Asx	1.00	0.99		Phe			
Cys				Pro	1.00	1.00	
Glx				Ser			
Gly				Thr			
His				Trp			
Ile				Tyr			
Leu	1.00	1.03		Val	1.00	0.98	

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

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7

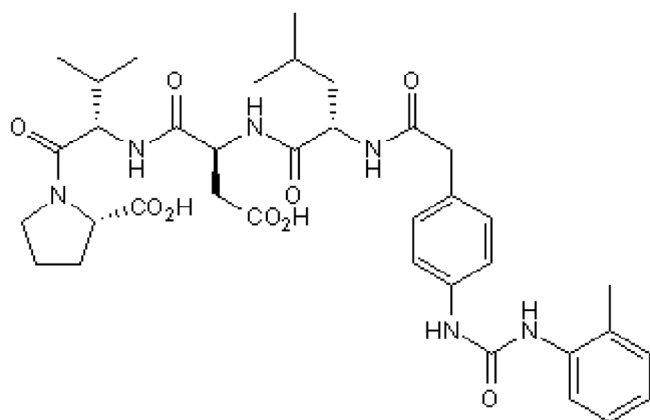
Description:

BIO 1211 is a selective, high affinity $\alpha_4\beta_1$ (Very Late Antigen 4; VLA-4) inhibitor; displays 200-fold selectivity for the activated form of $\alpha_4\beta_1$ ($K_D = 70$ pM; $IC_{50} = 0.004$ μ M). Selective for $\alpha_4\beta_1$ over a range of other integrins ($IC_{50} >100$ μ M for $\alpha_1\beta_1$, $\alpha_5\beta_1$ and $\alpha_6\beta_1$).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{36}H_{48}N_6O_9$
Batch Molecular Weight: 708.8
Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$. 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

- Muro et al** (2009) Discovery of *trans*-4-[1-[[2,5-Dichloro-4-(1-methyl-3-indolylcarboxamido)phenyl]acetyl]-(4*S*)-methoxy-(2*S*)-pyrrolidinylmethoxy]cyclohexanecarboxylic acid: an orally active, selective very late antigen-4 antagonist. *J.Med.Chem.* **52** 7974. PMID: 19891440.
- Chen et al** (1999) Multiple activation sites of integrin $\alpha_4\beta_1$ detected through their different affinities for a small molecule ligand. *J.Biol.Chem.* **274** 13167. PMID: 10224072.
- Lin et al** (1999) Selective, tight-binding inhibitors of integrin $\alpha_4\beta_1$ that inhibit allergic airway responses. *J.Med.Chem.* **42** 920. PMID: 10072689.

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