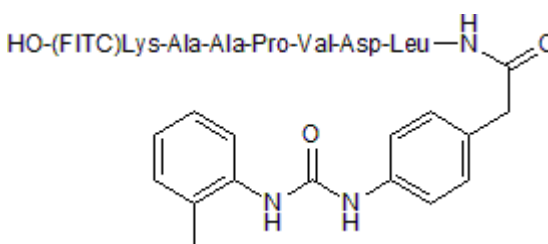


Product Name: LDV FITC
CAS Number: 1207610-07-8

Catalog No.: 4577 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₉H₈₁N₁₁O₁₇S
Batch Molecular Weight: 1368.54
Physical Appearance: White lyophilised solid
Net Peptide Content: 88%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 20% acetonitrile / water
Storage: Store at -20°C
Peptide Sequence: HO-(FITC)Lys-Ala-Ala-Pro-Val-Asp-Leu-NH-



2. ANALYTICAL DATA

HPLC: Shows 95% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	2.00	1.90	Lys	1.00	1.05		
Arg			Met				
Asx	1.00	0.93	Phe				
Cys			Pro	1.00	1.07		
Glx			Ser				
Gly			Thr				
His			Trp				
Ile			Tyr				
Leu	1.00	1.06	Val	1.00	1.06		

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

Product Name: LDV FITC

Catalog No.: 4577

Batch No.: 1

CAS Number: 1207610-07-8

Description:

Fluorescent ligand that binds to the $\alpha_4\beta_1$ integrin (VLA-4) with high affinity (K_d values are 0.3 nM and 12 nM for binding to U937 cells in the presence and absence of Mn^{2+} respectively). Used to detect VLA-4 affinity and conformational changes.

Physical and Chemical Properties:

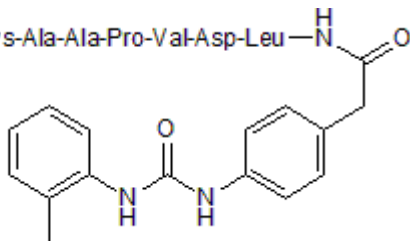
Batch Molecular Formula: $C_{69}H_{81}N_{11}O_{17}S$

Batch Molecular Weight: 1368.54

Physical Appearance: White lyophilised solid

Peptide Sequence:

HO-(FITC)Lys-Ala-Ala-Pro-Val-Asp-Leu-NH-



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 20% acetonitrile / water

Net Peptide Content: 88% (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:

Chigaev et al (2001) Real time analysis of the affinity regulation of alpha 4-integrin. The physiologically activated receptor is intermediate in affinity between resting and Mn^{2+} or antibody activation. *J.Biol.Chem.* **276** 48670. PMID: 11641394.

Njus et al (2009) Conformational mAb as a tool for integrin ligand discovery. *Assay Drug Dev.Technol.* **7** 507. PMID: 19754304.

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