

LDV-FITC

Cat. No.:	HY-P1188
CAS No.:	1207610-07-8
Molecular Formula:	C ₆₉ H ₈₁ N ₁₁ O ₁₇ S
Molecular Weight:	1368.51
Sequence:	{4-((N'-2-methylphenyl)ureido)-phenylacetyl}-Leu-Asp-Val-Pro-Ala-Ala-{Lys(FITC)}
Sequence Shortening:	{4-((N'-2-methylphenyl)ureido)-phenylacetyl}-LDVPAA-{Lys(FITC)}
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	LDV-FITC, a fluorescent peptide, is a FITC-conjugated LDV peptide (HY-P2267). LDV-FITC binds to the $\alpha 4\beta 1$ integrin with high affinity (K_d : 0.3 nM and 12 nM for binding to U937 cells in the presence and absence of Mn^{2+} respectively). LDV-FITC can be used to detect $\alpha 4\beta 1$ integrin affinity ^{[1][2]} .
IC ₅₀ & Target	$\alpha 4\beta 1$ integrin ^[1]

REFERENCES

[1]. Hyduk SJ, et al. Phospholipase C, calcium, and calmodulin are critical for $\alpha 4\beta 1$ integrin affinity up-regulation and monocyte arrest triggered by chemoattractants. *Blood*. 2007 Jan 1;109(1):176-84.

[2]. Chigaev A, et al. 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*. 2001 Dec 28;276(52):48670-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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