

Product Name: GLPG 0187

Catalog No.: 7059

Batch No.: 2

CAS Number: 1320346-97-1

IUPAC Name: 3-[[2,5-Dimethyl-6-[4-(5,6,7,8-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(4-methoxyphenyl)sulfonyl]-L-alanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₇N₇O₅S.¾H₂O

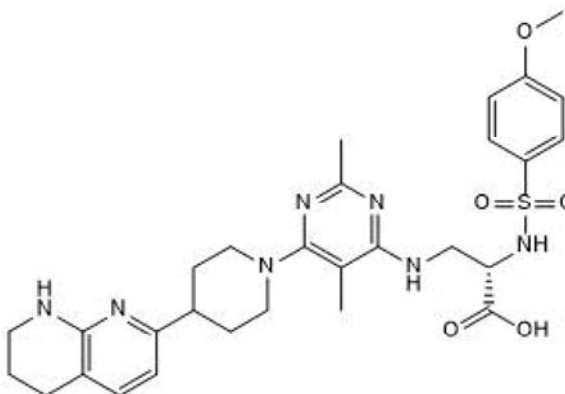
Batch Molecular Weight: 609.22

Physical Appearance: White solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +81.2 (Concentration = 0.25, Solvent = DMSO)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.17	6.37	16.09
Found	56.83	6.46	16.01

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Description:

Potent α_v integrin inhibitor (IC_{50} values are 1.2-3.7 nM). Inhibits osteoclastic bone resorption and angiogenesis in vitro and in vivo. Suppresses epithelial-mesenchymal transition (EMT) and migration of PC-3M-Pro4/luc cells, without inhibiting cell growth. Induces detachment and necrosis of GL-261 and SMA-560 murine glioma cells.

Physical and Chemical Properties:

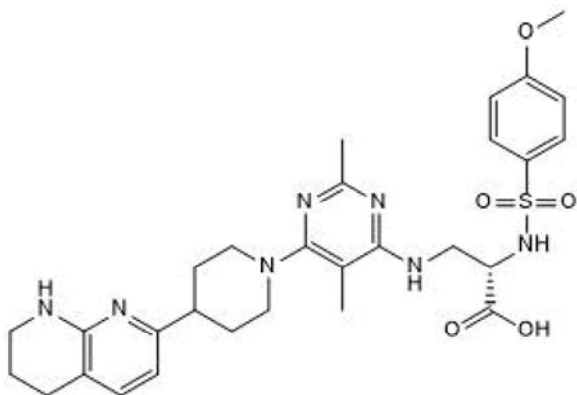
Batch Molecular Formula: $C_{29}H_{37}N_7O_5S \cdot \frac{3}{4}H_2O$

Batch Molecular Weight: 609.22

Physical Appearance: White solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



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

Solubility & Usage Info:

DMSO to 10 mM

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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Silginer et al (2014) Integrin inhibition promotes atypical anoikis in glioma cells. *Cell Death Dis.* **5** e1012. PMID: 24457956.

van der Horst, et al (2011) Targeting of α_v -integrins in stem/progenitor cells and supportive microenvironment impairs bone metastasis in human prostate cancer. *Neoplasia* **13** 516. PMID: 21677875.

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