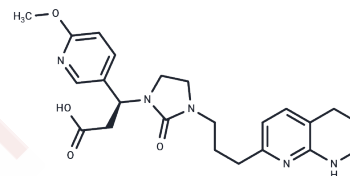


MK-0429

Chemical Properties

CAS No. : 227963-15-7
Formula: C₂₃H₂₉N₅O₄
Molecular Weight: 439.51
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	MK-0429 is an orally active, selective, and nonpeptide antagonist of $\alpha\beta 3$ integrin (IC ₅₀ : 80 nM).
Targets(IC ₅₀)	Others,Integrin
In vivo	MK-0429 is safe and efficacious in obviously reducing melanoma metastasis in the lungs. MK-0429 (100 or 300 mg/kg, p.o., twice daily b.i.d., 2 weeks) decreases metastatic tumor colony formation and area in the lungs [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (568.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (7.51 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2753 mL	11.3763 mL	22.7526 mL
5 mM	0.4551 mL	2.2753 mL	4.5505 mL
10 mM	0.2275 mL	1.1376 mL	2.2753 mL
50 mM	0.0455 mL	0.2275 mL	0.4551 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hutchinson JH, et al. Nonpeptide alphavbeta3 antagonists. 8. In vitro and in vivo evaluation of a potent alphavbeta3 antagonist for the prevention and treatment of osteoporosis. *J Med Chem.* 2003 Oct 23;46(22):4790-8.
Pickarski M, et al. Orally active $\alpha\text{v}\beta\text{3}$ integrin inhibitor MK-0429 reduces melanoma metastasis. *Oncol Rep.* 2015 Jun;33(6):2737-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481