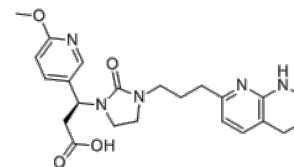


Product Name : MK-0429
Cat. No. : PC-62001
CAS No. : 227963-15-7
Molecular Formula : C₂₃H₂₉N₅O₄
Molecular Weight : 439.51
Target : Integrin
Solubility : 10 mM in DMSO



Biological Activity

MK-0429 is a potent, selective, orally-active nonpeptide **αvβ3 integrin** inhibitor with IC₅₀ of 0.08 nM in SPAV3 assay.

MK-0429 displays approximately 100-fold selectivity for αvβ3 over αvβ5 (IC₅₀=10 nM), and no significant activity for the fibrinogen receptor αIIbβ3 (IC₅₀>30 μM).

MK-0429 shows activity in different animal models of bone turnover and has potentiation for the prevention and treatment of osteoporosis.

MK-0429 also reduces melanoma metastasis both in vitro and in vivo.

References

Hutchinson JH, et al. *J Med Chem.* 2003 Oct 23;46(22):4790-8.

Pickarski M, et al. *Oncol Rep.* 2015 Jun;33(6):2737-45.

Zhou X, et al. *Pharmacol Res Perspect.* 2017 Oct;5(5).

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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