

Product Name	: MK-0429
Synonyms	: MK0429
Cat No.	: M13624
CAS Number	: 227963-15-7
Molecular Formula	: C ₂₃ H ₂₉ N ₅ O ₄
Formula Weight	: 439.51
Chemical Name	: (S)-3-(6-methoxypyridin-3-yl)-3-(2-oxo-3-(3-(5,6,7,8-tetrahydro-1,8-naphthyridin-2-yl)propyl)imidazolidin-1-yl)propanoic acid
Description	MK-0429 is a potent, selective, orally-active nonpeptide $\alpha\beta 3$ integrin inhibitor with IC₅₀ of 0.08 nM in SPAV3 assay; displays approximately 100-fold selectivity for $\alpha\beta 3$ over $\alpha\beta 5$ (IC₅₀=10 nM), and no significant activity for the fibrinogen receptor $\alpha\text{IIb}\beta 3$ (IC₅₀>30 μM); shows activity in different animal models of bone turnover and has potentiation for the prevention and treatment of osteoporosis; also reduces melanoma metastasis both in vitro and in vivo. Prostate Cancer Phase 1 Discontinued
Pathway	: Cell Cycle/DNA Damage
Target	: Integrin
Receptor	: Integrin
Solubility	: DMSO : 250 mg/mL 568.82 mM
SMILES	: <chem>O=C(O)C[C@@H](C1=CC=C(OC)N=C1)N2CCN(CCCC3=NC4=C(CCCN4)C=C3)C2=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Hutchinson JH, et al. J Med Chem. 2003 Oct 23;46(22):4790-8. | 2. Pickarski M, et al. Oncol Rep. 2015 Jun;33(6):2737-45. | 3. Zhou X, et al. Pharmacol Res Perspect. 2017 Oct;5(5).