



Product Information

Integrin inhibitor, MK-0429, Purity $\geq 98\%$

Cat. No.: X24-08-YM310

Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 227963-15-7

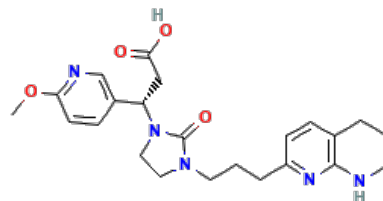
Compound CID: 9853559

Synonym: 227963-15-7; MK 0429; MK0429; L-000845704; L000845704; L

000845704;

(3S)-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



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	MK-0429 is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting integrin. It targets the $\alpha 5\beta 1$, $\alpha v\beta 1$, $\alpha v\beta 3$, and $\alpha v\beta 5$.
Molecular Weight	439.51
Molecular Formula	C ₂₃ H ₂₉ N ₅ O ₄
Targets	$\alpha 5\beta 1$: 12.2 nM (IC ₅₀ , inhibition of fibronectin-binding); $\alpha v\beta 1$: 1.6 nM (IC ₅₀ , inhibition of fibronectin-binding); $\alpha v\beta 3$: 2.8 nM (IC ₅₀ , inhibition of vitronectin-binding); $\alpha v\beta 5$: 0.1 nM (IC ₅₀ , inhibition of vitronectin-binding)
IUPAC Name	(3S)-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
InChI	InChI=1S/C23H29N5O4/c1-32-20-9-7-17(15-25-20)19(14-21(29)30)28-13-12-27(23(28)31)11-3-5-18-8-6-16-4-2-10-24-22(16)26-18/h6-9,15,19H,2-5,10-14H2,1H3,(H,24,26)(H,29,30)/t19-m/s1
InChI Key	MCVJOWHOLELJGI-LQCLSJOXSA-N
Canonical SMILES	CC(=O)N1CCCC1C(=O)NC(CC2=CN=CN2)C(=O)NC(CO)C(=O)NC(CS)C(=O)NC(CC(=O)N)C(=O)N.C(=O)(C(F)(F)F)O
Isomeric SMILES	CC(=O)N1CCC[C@H]1C(=O)N[C@@H](CC2=CN=CN2)C(=O)N[C@@H](CO)C(=O)N[C@@H](CS)C(=O)N[C@@H](CC(=O)N)C(=O)N.C(=O)(C(F)(F)F)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Stability	In its lyophilized form, the chemical remains stable for 36 months.



Quality Level	Research grade
Applications	MK-0429 is a cytoskeletal signaling inhibitor that can be used for its effects on tumor growth, angiogenesis, and bone resorption.
Storage	Store at -20°C, and keep desiccated.
