



Product Information

HIV integrase inhibitor MK-2048, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ915

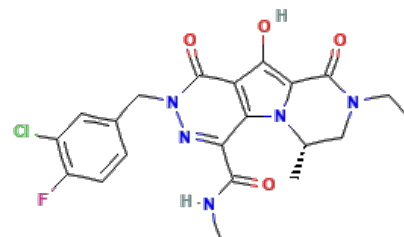
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 869901-69-9

Compound CID: 54698642

Synonym: 869901-69-9; HIV integrase inhibitor; MK2048

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



Product Information

Description	MK-2048, soluble in DMSO and insoluble in ethanol and water, blocks the action of the integrase enzyme, which is crucial for the HIV virus to integrate its genetic material into the host cell's DNA, thereby impeding the virus's ability to replicate and spread.
Molecular Weight	461.9
Molecular Formula	C ₂₁ H ₂₁ ClFN ₅ O ₄
IUPAC Name	(13S)-5-[(3-chloro-4-fluorophenyl)methyl]-11-ethyl-8-hydroxy-N,13-dimethyl-6,10-dioxo-1,4,5,11-tetrazatricyclo[7.4.0.0 ^{2,7}]trideca-2(7),3,8-triene-3-carboxamide
InChI	InChI=1S/C21H21ClFN5O4/c1-4-26-8-10(2)28-16-14(18(29)17(28)21(26)32)20(31)27(25-15(16)19(30)24-3)9-11-5-6-13(23)12(22)7-11/h5-7,10,29H,4,8-9H2,1-3H3,(H,24,30)/t10-m/s1
InChI Key	JSRREMIKIHJGAA-JTQLQIEISA-N
Canonical SMILES	CCN1CC(N2C3=C(C(=C2C1=O)O)C(=O)N(N=C3C(=O)NC)CC4=CC(=C(C(=C4)F)Cl)C
Isomeric SMILES	CCN1C[C@@H](N2C3=C(C(=C2C1=O)O)C(=O)N(N=C3C(=O)NC)CC4=CC(=C(C(=C4)F)Cl)C
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 9 mg/mL (19.48 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	MK-2048 targets HIV integrase and is investigated for its potential in treating HIV infection.



Storage

Store at -20°C, and keep desiccated.
