



Product Information

HCV protease inhibitor MK-5172 hydrate, Purity ≥98%

Cat. No.: X24-07-ZQ009

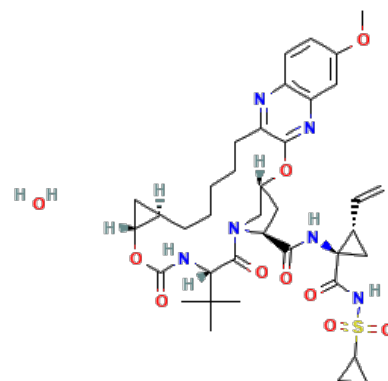
Size: 5 mg; 10 mg; 25 mg; 50 mg

CAS Number: 1350462-55-3

Compound CID: 71576667

Synonym: 1350462-55-3; HCV protease inhibitor; MK5172 hydrate; MK 5172 hydrate

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



Product Information

Description	MK-5172 hydrate targets and inhibits the function of the hepatitis C virus protease enzyme.
Molecular Weight	784.92
Molecular Formula	C ₃₈ H ₅₂ N ₆ O ₁₀ S
IUPAC Name	(1R,18R,20R,24S,27S)-24- <i>tert</i> -butyl-N-[(1R,2S)-1-(cyclopropylsulfonylcarbamoyl)-2-ethenylcyclopropyl]-7-methoxy-22,25-dioxo-2,21-dioxo-4,11,23,26-tetrazapentacyclo[24.2.1.03,12.05,10.018,20]nonacosa-3,5(10),6,8,11-pentaene-27-carboxamide;hydrate
InChI	InChI=1S/C38H50N6O9S.H2O/c1-6-22-19-38(22,35(47)43-54(49,50)25-13-14-25)42-32(45)29-18-24-20-44(29)34(46)31(37(2,3)4)41-36(48)53-30-16-21(30)10-8-7-9-11-27-33(52-24)40-28-17-23(51-5)12-15-26(28)39-27;/h6,12,15,17,21-22,24-25,29-31H,1,7-11,13-14,16,18-20H2,2-5H3,(H,41,48)(H,42,45)(H,43,47);1H2/t21-,22-,24-,29+,30-,31-,38-;/m1./s1
InChI Key	RXSARIJMSJWJLZ-CIAYNJNFSA-N
Canonical SMILES	CC(C)(C)C1C(=O)N2CC(CC2C(=O)NC3(CC3C=C)C(=O)NS(=O)(=O)C4CC4)OC5=NC6=C(C=CC(=C6)OC)N=C5CCCCC7CC7OC(=O)N1.O
Isomeric SMILES	CC(C)(C)[C@H]1C(=O)N2C[C@@H](C[C@H]2C(=O)N[C@@]3(C[C@H]3C=C)C(=O)NS(=O)(=O)C4CC4)OC5=NC6=C(C=CC(=C6)OC)N=C5CCCC[C@H]7C[C@H]7OC(=O)N1.O
Form	Lyophilized powder
Purity	≥98%
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-5172 hydrate is investigated for its role as an HCV NS3/4A protease inhibitor, contributing to antiviral research for hepatitis C.
Storage	Store at -20°C, and keep desiccated.
