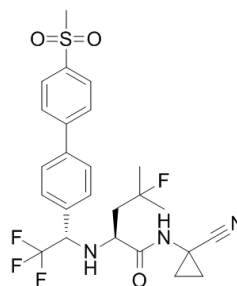


Product Name : Odanacatib
Synonyms : MK-0822;MK 0822;MK0822
Cat No. : M15252
CAS Number : 603139-19-1
Molecular Formula : C₂₅H₂₇F₄N₃O₃S
Formula Weight : 525.56



Chemical Name : Pentanamide, N-(1-cyanocyclopropyl)-4-fluoro-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)][1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-

Description : A potent, selective, reversible and orally active cathepsin K inhibitor with IC₅₀ of 0.2 nM; displays >300-fold selectivity over cathepsin B, L, S, F, and V; demonstrates the potentiation for the treatment of osteoporosis and other skeletal disorders associated with excessive bone remodeling. Osteoporosis Phase 3 Clinical

Pathway : Metabolic Enzyme/Protease

Target : Cathepsin

Receptor : CathepsinK(human);CathepsinK(rabbit)

Solubility : DMSO: ≥25 mg/mL

SMILES : CC(C)(F)C[C@H](N[C@@H](C1=CC=C(C2=CC=C(C(S(=O)(=O)C)C=O)C=C2)C=C1)C(F)(F)F)C(NC3(C#N)CC3)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Gauthier JY, et al. Bioorg Med Chem Lett. 2008 Feb 1;18(3):923-8. | 2. Kumar V, et al. Mol Pharm. 2009 Jul-Aug;6(4):1118-24. | 3. Eisman JA, et al. J Bone Miner Res. 2011 Feb;26(2):242-51.