

Product Name : FMK-9a

Synonyms : FMK 9a; FMK9a

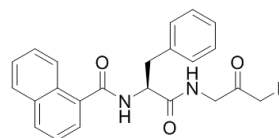
Cat No. : M13062

CAS Number : 1955550-51-2

Molecular Formula : C₂₃H₂₁FN₂O₃

Formula Weight : 392.42

Chemical Name : 1-Naphthalenecarboxamide, N-[(1S)-2-[(3-fluoro-2-oxopropyl)amino]-2-oxo-1-(phenylmethyl)ethyl]-



Description : FMK-9a (FMK9a) is a potent, selective, covalent peptidomimetic inhibitor of ATG4B (Autophagin-1) with IC₅₀ of 80 nM in TR-FRET assay; displays no activity against the aspartic protease, serine proteases, metalloproteases and the 20S proteasome, inhibits cathepsin B and calpain with submicromolar IC₅₀ (0.1-0.2 μM); covalently binds to Cys74 and inactivates ATG4B proteolytic activity, has an IC₅₀ of 15 nM in the cellular LRA assay.

Pathway : Autophagy

Target : Atg

Receptor : Atg

Solubility : DMSO: ≥ 150 mg/mL

SMILES : O=C(c1ccc2ccccc2c1)N[C@@H](CC(=O)CC(F)=O)C(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Qiu Z, et al. ACS Med Chem Lett. 2016 Jun 25;7(8):802-6.