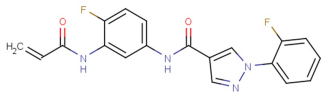
Data Sheet (Cat.No.T11191)

TargetMol
A DRUG SCREENING EXPERT

EN6

Chemical Properties



CAS No.:	1808714-73-9
Formula:	C19H14F2N4O2
Molecular Weight:	368.34
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	EN6-mediated ATP6V1A modification decouples the v-ATPase from the Rags, leading to inhibition of mTORC1 signaling, increased lysosomal acidification and activation of autophagy. EN6 clears TDP-43 aggregates, a causative agent in frontotemporal dementia, in a lysosome-dependent manner. EN6 is a small-molecule in vivo activator of autophagy that covalently targets cysteine 277 in the ATP6V1A subunit of the lysosomal the vacuolar H+ ATPase (v-ATPase).
Targets(IC_{50})	Others: None

Solubility Information

Solubility	DMSO: 5 mg/mL (13.57 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.715 mL	13.574 mL	27.149 mL
5 mM	0.543 mL	2.715 mL	5.43 mL
10 mM	0.271 mL	1.357 mL	2.715 mL
50 mM	0.054 mL	0.271 mL	0.543 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chung CY, et al. Covalent targeting of the vacuolar H+-ATPase activates autophagy via mTORC1 inhibition. Nat Chem Biol. 2019 Aug;15(8):776-785.

Inhibitors · Natural Compounds · Compound Libraries

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