

Product Data Sheet

Product Name: EN6
Cat. No.: GC35982

Chemical Properties

Cas. No. 1808714-73-9

SMILES O=C(C1=CN(C2=CC=CC=C2F)N=C1)NC3=CC=C(F)C(NC(C=C)=O)=C3

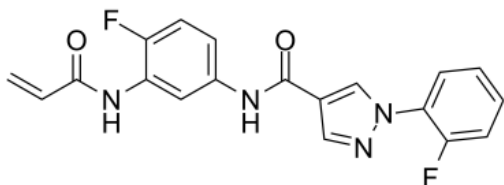
Formula $C_{19}H_{14}F_2N_4O_2$ M.Wt 368.34

Solubility DMSO: 5 mg/mL (13.57 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure



Background

EN6 is a small-molecule in vivo activator of autophagy that covalently targets cysteine 277 in the ATP6V1A subunit of the lysosomal vacuolar H⁺ ATPase (v-ATPase). 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[1].

[1]. Chung CY, et al. Covalent targeting of the vacuolar H⁺-ATPase activates autophagy via mTORC1

Caution: Product has not been fully validated for medical applications. For research use only.

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inhibition. Nat Chem Biol. 2019 Aug;15(8):776-785.

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