

Product Data Sheet

Product Name: Protein degrader 1 hydrochloride

Cat. No.: GC19302

Chemical Properties

Cas. No. 1448189-80-7

SMILES O=C([C@H](C[C@@H](O)C1)N1C([C@@H](N)C(C)(C)C)=O)NCC2=CC=C(C(SC=N3)=C3C)C=C2.Cl

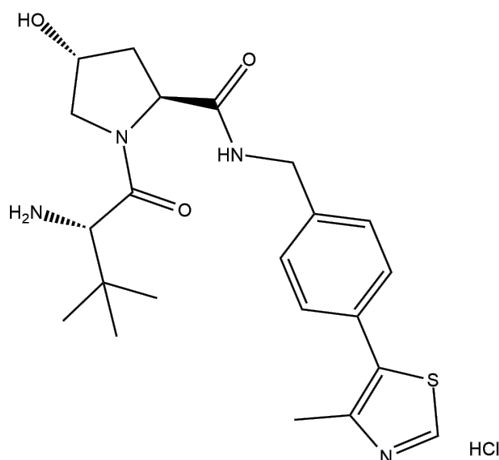
Formula $C_{22}H_{31}ClN_4O_3S$ M.Wt 467.02

Solubility DMSO : 150 mg/mL (321.19 mM); Water : 50 mg/mL (107.06 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 size: ship with RT , or blue ice upon request.

Structure



Background

Protein degrader 1 hydrochloride is used in the synthesis of HaloPROTACs.

Small molecule-induced protein degradation is an attractive strategy for the development of chemical probes. Protein degraders have the power to abrogate all of the functions of a drug target at once, including scaffolding functions which are difficult to target with small molecule inhibitors. A novel class of PROTACs that incorporate small molecule VHL ligands to successfully degrade HaloTag7 fusion

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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proteins is developed. HaloPROTACs will inspire the development of future PROTACs with more drug-like properties. In HEK 293 cells stably expressing GFP-HaloTag7, 24 hour treatment with HaloPROTAC1 leads to less than 20% degradation, the longer HaloPROTAC2 leads to nearly 70% degradation of GFP-HaloTag7 at 2.5 μ M. HaloPROTACs containing protein degrader 1 leads to nearly 70% degradation of GFP-HaloTag7, when sufficiently long linkers are used[1].

References:

[1]. Buckley DL, et al. HaloPROTACS: Use of Small Molecule PROTACs to Induce Degradation of HaloTag Fusion Proteins. ACS Chem Biol. 2015 Aug 21;10(8):1831-7.

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