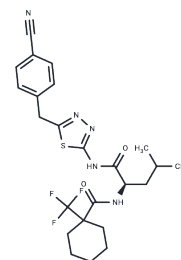


BAY-805

Chemical Properties

CAS No. : 2925481-88-3
 Formula: C₂₄H₂₈F₃N₅O₂S
 Molecular Weight: 507.57
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	BAY-805 is a selective, high-affinity inhibitor of the ubiquitin-specific protease USP21 and an in vitro chemical probe. It possesses low nanomolar affinity and enhances NF-κB levels.
Targets(IC ₅₀)	Others
In vitro	BAY-805 exhibits inhibitory effects on both hUSP21 HTRF and hUSP21 Ub-Rhod activities, with corresponding IC ₅₀ values of 6 nM and 2 nM, respectively [1]. BAY-805 (10 μM) can induce NF-κB activation (EC ₅₀ =17 nM) [1]. BAY-805 (10 μM and 50 μM) significantly inhibits USP21 activity while demonstrating weak inhibitory effects on USP22 and USP10 [1]. Additionally, BAY-805 (0.0001-1000000 nM) shows selective inhibition against USP21 [1].

Solubility Information

Solubility	DMSO: ≥ 160 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9702 mL	9.8509 mL	19.7017 mL
5 mM	0.394 mL	1.9702 mL	3.9403 mL
10 mM	0.197 mL	0.9851 mL	1.9702 mL
50 mM	0.0394 mL	0.197 mL	0.394 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Göricke F, et al. Discovery and Characterization of BAY-805, a Potent and Selective Inhibitor of Ubiquitin-Specific Protease USP21. J Med Chem. 2023 Feb 20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481