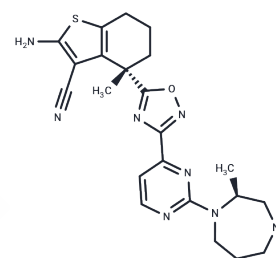


pan-KRAS degrader 1

Chemical Properties

CAS No. :	2937327-83-6
Formula:	C ₂₂ H ₂₆ N ₈ O ₅
Molecular Weight:	450.56
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	pan-KRAS degrader 1 is a pan-KRAS inhibitor with IC ₅₀ values of 29 nM and 9 nM against wild-type KRAS and G12V mutant respectively. It exerts anti-proliferative effects in KRAS-mutant cell lines and is suitable for lung cancer research.
In vitro	Methods: Cell proliferation assays were performed to detect the inhibitory activity of pan-KRAS degrader 1 against KRAS-mutant cells. Its binding affinity to KRASG12V was determined, and its metabolic clearance properties in mouse and human liver microsomes were evaluated. Results: : 1. After 72 hours of treatment, pan-KRAS degrader 1 exhibited anti-proliferative activity against Ba/F3 KRASG12V and NCI-H727 cells, with EC ₅₀ values of 0.959 μM and >1 μM, respectively. 2. pan-KRAS degrader 1 showed a high metabolic clearance rate in both mouse and human liver microsomes [1]. 3. pan-KRAS degrader 1 possessed high affinity for KRASG12V with an inhibition constant Ki of 25 nM [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (177.56 mM), 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	2.2195 mL	11.0973 mL	22.1946 mL
5 mM	0.4439 mL	2.2195 mL	4.4389 mL
10 mM	0.2219 mL	1.1097 mL	2.2195 mL
50 mM	0.0444 mL	0.2219 mL	0.4439 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

Popow J, et al. Targeting cancer with small-molecule pan-KRAS degraders. *Science*. 2024 Sep 20;385(6715):1338-1347.

Bröker J, et al. Discovery of BI-2493, a Pan-KRAS Inhibitor Showing In Vivo Efficacy. *J Med Chem*. 2025 Aug 14;68(15):15649-15668.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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