

BI-2852

Chemical Properties

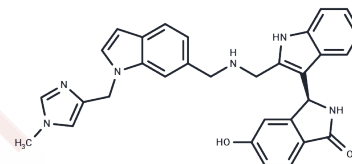
CAS No. : 2375482-51-0

Formula: C₃₁H₂₈N₆O₂

Molecular Weight: 516.59

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	BI-2852 is a KRAS inhibitor targeting the switch I/II pocket (SI/II-pocket) with nanomolar affinity, leading to inhibition of downstream signaling and an antiproliferative effect in KRAS mutant cells.
Targets(IC50)	Ras,Kras
In vitro	BI-2852 (Compound 1; 10 nM-10 μM; 2 hours) shows a dose-dependent pERK modulation and antiproliferative effect at EC50s of 6.7 μM and 5.8 μM in low serum and soft agar conditions in NCI-H358 cells.

Solubility Information

Solubility	DMSO: 50 mg/mL (96.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.87 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9358 mL	9.6789 mL	19.3577 mL
5 mM	0.3872 mL	1.9358 mL	3.8715 mL
10 mM	0.1936 mL	0.9679 mL	1.9358 mL
50 mM	0.0387 mL	0.1936 mL	0.3872 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

Kessler D, et al. Drugging an undruggable pocket on KRAS. Proc Natl Acad Sci U S A. 2019 Aug 6; 116(32):15823-15829.

Yun S D, Scott E, Chang J Y, et al. Capturing RAS oligomerization on a membrane. Proceedings of the National Academy of Sciences. 2024, 121(34): e2405986121.

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