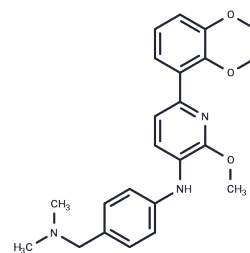


RAS inhibitor Abd-7

Chemical Properties

CAS No. :	2351843-48-4
Formula:	C23H25N3O3
Molecular Weight:	391.46
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	RAS inhibitor Abd-7 is a powerful compound (Kd=51 nM) that binds to RAS and inhibits the protein-protein interaction (PPI) between RAS and its effectors. By interacting with RAS within cells, RAS inhibitor Abd-7 hinders RAS-effector interactions and suppresses endogenous RAS-dependent signaling. Additionally, RAS inhibitor Abd-7 disrupts the PPI of different mutant KRAS proteins with PI3K, CRAF, RALGDS, as well as NRAS Q61H and HRAS G12V[1].
Targets(IC50)	Kras,Ras
In vitro	RAS inhibitor Abd-7 (0-20 μM; 24-48 hours) is a cell-potent inhibitor affecting the viability of cancer cell lines in a single digit to low micromolar range[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (319.32 mM),Sonication is recommended. H2O: < 1?mg/mL?(insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (8.43 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	2.5545 mL	12.7727 mL	25.5454 mL
5 mM	0.5109 mL	2.5545 mL	5.1091 mL
10 mM	0.2555 mL	1.2773 mL	2.5545 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Quevedo CE, et al. Small molecule inhibitors of RAS-effector protein interactions derived using an intracellular antibody fragment. Nat Commun. 2018;9(1):3169. Published 2018 Aug 9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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