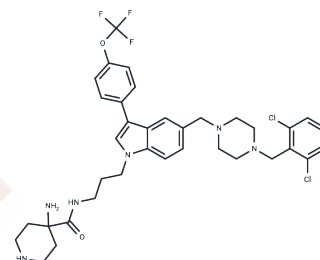


## Pan-RAS-IN-1

## Chemical Properties

CAS No. :	1835283-94-7
Formula:	C <sub>36</sub> H <sub>41</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	717.65
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-RAS-IN-1 is an inhibitor of pan-Ras. It disrupts the interaction of Ras proteins and their effectors.
Targets(IC50)	MAPK,Ras
In vitro	Pan-RAS-IN-1 is cytostatic, possibly due to pan-RAS inhibition at some concentrations. Pan-RAS-IN-1 is evaluated in primary T cell acute lymphoblastic leukemia (T-ALL) cells. Selective lethality is observed, with mutant NRAS cells retaining only 20%-40% viability after 5 $\mu$ M treatment. Pan-RAS-IN-1 binds to KRasG12D-GppNHp with an affinity of less than 20 $\mu$ M. Pan-RAS-IN-1 binds to Ras proteins and exhibits lethality in cells partially dependent on the expression of Ras proteins. The potency of pan-RAS-IN-1 correlates with the degree of dependency on the mutated isoform over a 5-fold concentration range [1].
In vivo	Pan-RAS-IN-1-treated mice show decreased tumor pERK levels compared with vehicle-treated mice. Pan-RAS-IN-1 administration causes inhibition of tumor growth over 15 days of treatment. A modest increase in cleaved caspase-3 is also observed, showing that pan-RAS-IN-1 has the capacity to induce caspase activation in this model[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (69.67 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 (2.79 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3934 mL	6.9672 mL	13.9344 mL
5 mM	0.2787 mL	1.3934 mL	2.7869 mL
10 mM	0.1393 mL	0.6967 mL	1.3934 mL
50 mM	0.0279 mL	0.1393 mL	0.2787 mL

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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

Welsch ME, et al. Multivalent Small-Molecule Pan-RAS Inhibitors. Cell. 2017 Feb 23;168(5):878-889.e29.

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