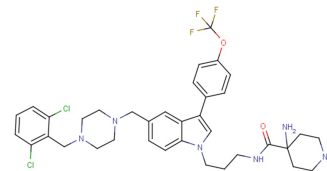


## Pan-RAS-IN-1

## Chemical Properties

CAS No.:	1835283-94-7
Formula:	C36H41Cl2F3N6O2
Molecular Weight:	717.65
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Pan-RAS-IN-1 is an inhibitor of pan-Ras. It disrupts the interaction of Ras proteins and their effectors.
Targets(IC <sub>50</sub> )	Others: None
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) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.393 mL	6.967 mL	13.934 mL
5 mM	0.279 mL	1.393 mL	2.787 mL
10 mM	0.139 mL	0.697 mL	1.393 mL
50 mM	0.028 mL	0.139 mL	0.279 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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