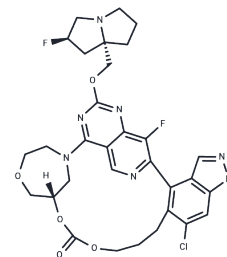


## AMG410

## Chemical Properties

CAS No. :	3040175-17-2
Formula:	C <sub>31</sub> H <sub>32</sub> ClF <sub>2</sub> N <sub>7</sub> O <sub>5</sub>
Molecular Weight:	656.08
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	AMG410 is a non-covalent, dual-modality KRAS inhibitor effective against both GDP (OFF) and GTP (ON) binding, with K <sub>d</sub> (GDP) of 1 nM and K <sub>d</sub> (GTP) of 22 nM, capable of blocking KRAS independently of the cell cycle. AMG410 does not affect HRAS and NRAS2, and exhibits high potency against KRAS G12D, G12V, G12C, G13D, and other mutants, with an IC <sub>50</sub> of 1-4 nM. It induces tumour regression and reduces phosphorylated ERK levels in KRAS-mutant cancer models.
Targets(IC50)	Ras,Kras
In vitro	<p><b>Method:</b> The inhibitory activity of AMG410 against various KRAS mutants was evaluated, along with its selectivity in different cell types and its binding affinity to KRAS-GTP and KRAS-GDP.</p> <p><b>Result:</b> AMG410 exhibited potent inhibition of KRAS G12D, G12V, and G13D mutants (IC<sub>50</sub> = 1-4 nM), with a median IC<sub>50</sub> of 12 nM in KRAS-mutant tumor cells, and showed weak inhibition in non-transformed cells (IC<sub>50</sub> &gt; 5μM), indicating high selectivity. It bound both GTP- and GDP-bound KRAS (K<sub>D</sub> = 22 nM and 1 nM, respectively), enabling state-independent blockade of KRAS signaling.[1]</p>

## Solubility Information

Solubility	DMSO: 12.5 mg/mL (19.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5242 mL	7.621 mL	15.242 mL
5 mM	0.3048 mL	1.5242 mL	3.0484 mL
10 mM	0.1524 mL	0.7621 mL	1.5242 mL
50 mM	0.0305 mL	0.1524 mL	0.3048 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

Adriano BAUER, et al. Macrocyclic kras inhibitors and methods of use. WO2024107686A1.

ND01 - AMG 410: An H/NRAS-sparing pan-KRAS inhibitor with dual GTP(on)/GDP(off)-state activity for the treatment of diverse KRAS-mutant tumors.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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