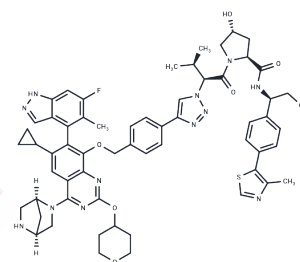


## Setidegrasib

## Chemical Properties

CAS No. :	2821793-99-9
Formula:	C60H65FN12O7S
Molecular Weight:	1117.30
Storage:	Keep away from direct sunlight 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	Setidegrasib is a PROTAC-mediated KRAS degrader (DC50: 37 nM). Setidegrasib induces the formation of a ternary complex between KRAS G12D and the VHL E3 ubiquitin ligase, thereby facilitating the ubiquitination and proteasomal degradation of the oncogenic protein. Setidegrasib inhibits the levels of p-ERK, p-AKT, and p-S6 in AsPC-1 cells. Setidegrasib demonstrates antitumor activity in various mouse xenograft models of cancer. Setidegrasib can be used to study solid tumors with KRAS(G12D) mutations.
Targets(IC50)	Kras,PROTACs,Ras
In vitro	Methods: Various KRAS(G12D)-mutant cancer cell lines (AsPC-1, PK-59, HPAC, GP2d, GP5d, etc.) and KRAS wild-type (WT) cell lines (A375, HT-29, BxPC-3, COLO-320) were treated with Setidegrasib (0.1 nM - 10 µM) for 6 days, and ATP levels were measured using the CellTiter-Glo 2.0 assay. Results: Setidegrasib potently inhibited the proliferation of multiple KRAS(G12D)-mutant cancer cell lines, whereas its activity against KRAS(WT) cells (A375, HT-29) and other KRAS mutants (G12V, G12C, G13D) was weaker (IC50 > 10 µM). [1]
In vivo	Methods: To investigate the antitumor activity of setidegrasib, an LXFA 1125 lung cancer PDX model (nude mice) was established. Setidegrasib (10, 30 mg/kg) was administered intravenously twice weekly for 21 days. Results: Setidegrasib inhibited tumor growth in a dose-dependent manner; IHC analysis revealed reduced KRAS(G12D) expression. [1]

## Solubility Information

Solubility	DMSO: 80.00 mg/mL (71.60 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	----------------------------------------------------------------------------------------------------------------------------

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	0.895 mL	4.4751 mL	8.9501 mL
5 mM	0.179 mL	0.895 mL	1.790 mL
10 mM	0.0895 mL	0.4475 mL	0.895 mL
50 mM	0.0179 mL	0.0895 mL	0.179 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

Yoshinari T, et al. Discovery of KRAS(G12D) selective degrader ASP3082. *Commun Chem.* 2025;8(1):254. Published 2025 Aug 23.

Yoshinari, et al. Preparation of quinazoline-linked (4R)-4-hydroxy-L-prolinamide compounds for inducing degradation of G12D-mutation KRAS protein: World Intellectual Property Organization, WO2022173032[P]. 2022-08-18.

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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481