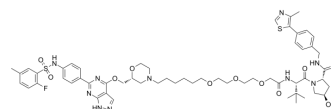


PROTAC SGK3 degrader-1

Cat. No.:	HY-125878
CAS No.:	2381320-35-8
Molecular Formula:	C ₅₇ H ₇₃ FN ₁₀ O ₁₁ S ₂
Molecular Weight:	1157.38
Target:	PROTACs; SGK
Pathway:	PROTAC; Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (86.40 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.8640 mL	4.3201 mL	8.6402 mL
		5 mM		0.1728 mL	0.8640 mL	1.7280 mL
	10 mM		0.0864 mL	0.4320 mL	0.8640 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.16 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.16 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	PROTAC SGK3 degrader-1 (SGK3-PROTAC1), is a potent SGK3 degrader based on von Hippel-Lindau ligand. PROTAC SGK3 degrader-1 (0.3 μM) induces 50% degradation of endogenous SGK3 within 2 hours, with maximal 80% degradation observed within 8 hours, accompanied by a loss of phosphorylation of NDRG1 (an SGK3 substrate) ^[1] .
IC₅₀ & Target	SGK3
In Vitro	PROTAC SGK3 degrader-1 (SGK3-PROTAC1) (0.3 μM, 4 weeks) in combination with GDC0941 inhibits cell growth in CAMA-1 or ZR-75-1 cells ^[1] . PROTAC SGK3 degrader-1 (0.1 μM, 48 h) reduces SGK3 levels by 65% without effecting SGK1, SGK2, or S6K1 in HEK293 cells ^[1] .

PROTAC SGK3 degrader-1 (1-10 μ M, 48 h) moderate reduces S6K1 levels in HEK293 cells^[1].

PROTAC SGK3 degrader-1 (>0.1 μ M, 8 h) reduces NDRG1 phosphorylation in HEK293 cells, and induces degradation of SGK3, but not SGK1 or S6K in CAMA-1 and ZR-75-1 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	CAMA-1 or ZR-75-1 cells
Concentration:	0.3 μ M
Incubation Time:	4 weeks
Result:	Inhibited cell growth in combination with GDC0941.

Western Blot Analysis^[1]

Cell Line:	HEK293 cells
Concentration:	0.1 μ M
Incubation Time:	48 h
Result:	Reduced SGK3 levels by 65% without effecting SGK1, SGK2, or S6K1.

CUSTOMER VALIDATION

- Redox Biol. 2023 Oct 16, 102931.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Tovell H, et al. Design and Characterization of SGK3-PROTAC1, an Isoform Specific SGK3 Kinase PROTAC Degrader. ACS Chem Biol. 2019 Sep 20;14(9):2024-2034.

Caution: Product has not been fully validated for medical applications. For research use only.

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