PROTAC TBK1 degrader-2

MedChemExpress

®

Cat. No.:	HY-112557		
CAS No.:	2052306-13	8-3	
Molecular Formula:	C ₅₃ H ₇₄ BrNg	₉ O ₉ S	
Molecular Weight:	1093.18		
Target:	PROTACs; I	KK	
Pathway:	PROTAC; N	F-κB	
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.9148 mL	4.5738 mL	9.1476 mL
	5 mM	0.1830 mL	0.9148 mL	1.8295 mL
	10 mM	0.0915 mL	0.4574 mL	0.9148 mL

BIOLOGICAL ACTIV	ту
BIOLOGICALMENT	
Description	PROTAC TBK1 degrader-2 is a Ligands for Target Protein for PROTAC. PROTAC TBK1 degrader-2 is a potent degrader based on the serine/threonine kinase TANK-binding kinase 1 (TBK1) (DC ₅₀ =15 nM; K _d =4.6 nM) with a maximum efficiency of 96%. PROTAC TBK1 degrader-2 also targets to IkB kinase IKKɛ (IC ₅₀ =8.7 nM), with low selectivity over TBK1 (IC ₅₀ =1.3 nM) ^[1] .
IC ₅₀ & Target	IC50: 1.3 nM (TBK1), 8.7 nM (IKKε) ^[1]
In Vitro	PROTAC TBK1 degrader-2 (compound 3i) (100 nM) mediates degradation of TBK1 abrogated by VHL ligand 2 (10 μM) or proteasome inhibitor Carfilzomib (HY-10455) (100 nM) ^[1] .PROTAC TBK1 degrader-2 (0-3 μM) exhibits poor selectivity for TBK1 over IKKε (IC ₅₀ of 1.3 nM vs 8.7 nM), but has no effect on the levels of IKKε, at concentrations of more than 50-fold above its TBK1 DC ₅₀ ^[1] .PROTAC TBK1 degrader-2 (100 nM; 300 M; 72 h) is not synthetically lethal in K-Ras mutant versus wild type cells ^[1] .MCE has not independently confirmed the accuracy of these methods. They are for reference only.Cell Viability Assay ^[1] Cell Line:K-Ras mutant cell lines (H23, A549, and H1792) and K-Rras wild type cell lines (H2110 and

Product Data Sheet

	HCC827)
Concentration:	100 nM, 300 nM
Incubation Time:	72 hours
Result:	Lacked synthetically lethality in K-Ras mutant versus wild type cells.

REFERENCES

[1]. Crew AP, et al. Identification and Characterization of Von Hippel-Lindau-Recruiting Proteolysis Targeting Chimeras (PROTACs) of TANK-Binding Kinase 1. J Med Chem. 2018 Jan 25;61(2):583-598.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA