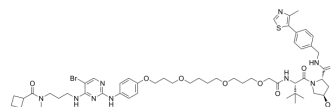


## PROTAC TBK1 degrader-2

<b>Cat. No.:</b>	HY-112557	
<b>CAS No.:</b>	2052306-13-3	
<b>Molecular Formula:</b>	C <sub>53</sub> H <sub>74</sub> BrN <sub>9</sub> O <sub>9</sub> S	
<b>Molecular Weight:</b>	1093.18	
<b>Target:</b>	PROTACs; IKK	
<b>Pathway:</b>	PROTAC; NF-κB	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sub>50</sub> =15 nM; K <sub>d</sub> =4.6 nM) with a maximum efficiency of 96%. PROTAC TBK1 degrader-2 also targets to IκB kinase IKKε (IC <sub>50</sub> =8.7 nM), with low selectivity over TBK1 (IC <sub>50</sub> =1.3 nM) <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 1.3 nM (TBK1), 8.7 nM (IKKε) <sup>[1]</sup>								
<b>In Vitro</b>	<p>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)<sup>[1]</sup>.</p> <p>PROTAC TBK1 degrader-2 (0-3 μM) exhibits poor selectivity for TBK1 over IKKε (IC<sub>50</sub> 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<sub>50</sub><sup>[1]</sup>.</p> <p>PROTAC TBK1 degrader-2 (100 nM; 300 M; 72 h) is not synthetically lethal in K-Ras mutant versus wild type cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>K-Ras mutant cell lines (H23, A549, and H1792) and K-Rras wild type cell lines (H2110 and HCC827)</td> </tr> <tr> <td>Concentration:</td> <td>100 nM, 300 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Lacked synthetically lethality in K-Ras mutant versus wild type cells.</td> </tr> </table>	Cell Line:	K-Ras mutant cell lines (H23, A549, and H1792) and K-Rras wild type cell lines (H2110 and HCC827)	Concentration:	100 nM, 300 nM	Incubation Time:	72 hours	Result:	Lacked synthetically lethality in K-Ras mutant versus wild type cells.
Cell Line:	K-Ras mutant cell lines (H23, A549, and H1792) and K-Rras wild type cell lines (H2110 and 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](mailto:tech@MedChemExpress.com)

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