



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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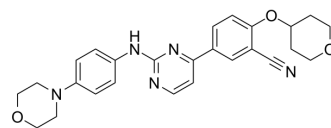
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## TBK1/IKKε-IN-2

Cat. No.:	HY-12453		
CAS No.:	1292310-49-6		
Molecular Formula:	C <sub>26</sub> H <sub>27</sub> N <sub>5</sub> O <sub>3</sub>		
Molecular Weight:	457.52		
Target:	IKK		
Pathway:	NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 21.5 mg/mL (46.99 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1857 mL	10.9285 mL	21.8570 mL
5 mM	0.4371 mL	2.1857 mL	4.3714 mL
10 mM	0.2186 mL	1.0928 mL	2.1857 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

Description	TBK1/IKKε-IN-2 is a dual TBK1 and IKKε inhibitor.	
IC <sub>50</sub> & Target	TBK1 0.6 nM (IC <sub>50</sub> , at 5 μM ATP)	IKKε 3.9 nM (IC <sub>50</sub> , at 10 μM ATP)
In Vitro	TBK1/IKKε-IN-2 (Compound #1) inhibits TBK1 biochemical function in Ulight kinase assay at 5 and 250 μM ATP concentration with IC <sub>50</sub> s of 0.6 and 2.6 nM, respectively. TBK1/IKKε-IN-2 inhibits IKKε biochemical function in Ulight kinase assay at 10 μM ATP with an IC <sub>50</sub> of 3.9 nM. The IC <sub>50</sub> of TBK1/IKKε-IN-2 in the Panc 02.13 proliferation assay is 5 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### PROTOCOL

#### Cell Assay <sup>[1]</sup>

Cell proliferation experiments are carried out in a 96-well format (6 replicates), Panc 02.13 cells are plated at a density of

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2,000 to 5,000 cells per well. At 24 hours following cell seeding, the cells are treated with the tool inhibitor titrations (e.g., TBK1/IKKε-IN-2, 1 nM, 10 nM, 100 nM, 1 μM and 10 μM) for 4 days at 37°C and then assayed by using the ATP CellTiter-Glo luminescent cell viability assay<sup>[1]</sup>.

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

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## CUSTOMER VALIDATION

- J Virol. 2022 Apr 13;96(7):e0188821.
- PLoS Negl Trop Dis. 2023 Jan 10;17(1):e0011001.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Muvaffak A, et al. Evaluating TBK1 as a therapeutic target in cancers with activated IRF3. Mol Cancer Res. 2014 Jul;12(7):1055-66.

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

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