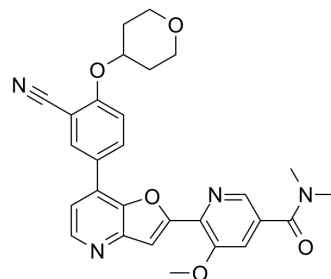


TBK1/IKKε-IN-1

Cat. No.:	HY-U00457
CAS No.:	2058264-32-5
Molecular Formula:	C ₂₈ H ₂₆ N ₄ O ₅
Molecular Weight:	498.53
Target:	IKK
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TBK1/IKKε-IN-1 is a dual TBK1 and IKKε inhibitor extracted from patent US20160376283 A1, Compound 274 in Example 60, has IC ₅₀ s of <100 nM.	
IC₅₀ & Target	TBK1 100 nM (IC ₅₀)	IKKε 100 nM (IC ₅₀)
In Vitro	IKKε and TBK1 are serine/threonine kinases which are highly homologous to one another and other IκB kinases (IKK-α and IKK-β). The two kinases play an integral role in the innate immune system. Double-stranded RNA viruses are recognised by the Toll-like receptors 3 and 4 and the RNA helicases RIG-I and MDA-5 and result in activation of the TRIF-TBK1/IKKε-IRF3 signalling cascade, which results in a type I interferon response ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Brian A. Sherer, et al. Tbk/ikk inhibitor compounds and uses thereof. US 20160376283 A1.

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

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