Proteins

Product Data Sheet



M4K2234

Cat. No.: HY-148234 CAS No.: 2421141-51-5 Molecular Formula: $C_{27}H_{31}FN_4O_2$ Molecular Weight: 462.56

Target: Anaplastic lymphoma kinase (ALK) Pathway: Protein Tyrosine Kinase/RTK

Storage: Powder -20°C

3 years 4°C 2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (216.19 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.1619 mL	10.8094 mL	21.6188 mL
	5 mM	0.4324 mL	2.1619 mL	4.3238 mL
	10 mM	0.2162 mL	1.0809 mL	2.1619 mL

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

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Description	M4K2234 (compound 26b) is an ALK2 inhibitor. M4K2234 inhibits ALK2 and ALK5 with IC $_{50}$ s of 5 and 2144 nM, respectively. M4K2234 can be used as a chemical probe for ALK1 and ALK2 protein kinases. M4K2234 can be used for the research of cancer ^[1] .
IC ₅₀ & Target	IC50: 5 nM (ALK2 WT), 3 nM (ALK2 G328V), 6 nM (ALK2 R206H), 6 nM (ALK2 R258G), 2144 nM (ALK5) $^{[1]}$
In Vitro	M4K2234 (0-5 μ M) shows inhibitory effects against WT and DIPG-linked mutant forms of ALK2 with IC ₅₀ s of 5, 3, 6 and 6 nM for WT, G328V, R206H and R258G, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Pharmacokinetic Properties of M4K2234 in Mice $^{[1]}$.
	Mice PO 3 mg/kg

C _{max} (ng/mL)	1650	
AUC _{inf} (ng·h/mL)	4630	
t _{1/2} (h)	2.61	
MCE has not independently confirmed the accuracy of these	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Ensan D, et al. Targeting ALK2: An Open Science Approach to Developing Therapeutics for the Treatment of Diffuse Intrinsic Pontine Glioma. J Med Chem. 2020 May 14;63(9):4978-4996.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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