Glutamate-5-kinase-IN-2

BIOLOGICAL ACTIVITY

Cat. No.:	HY-144382	
Molecular Formula:	C ₁₇ H ₁₀ CIFN ₂	
Molecular Weight:	296.73	NH NH
Target:	Bacterial	
Pathway:	Anti-infection	F
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	CI

Description	Glutamate-5-kinase-IN-2 (compound 54) is a potent glutamate-5-kinase (G5K) inhibitor with an MIC (minimum inhibitory concentration) of 4.2 μM. Glutamate-5-kinase-IN-2 shows G5K inhibition by promotes conformational changes at the L-glutamate binding site. Glutamate-5-kinase-IN-2 has the potential for the research of anti-TB agents ^[1] .	
IC ₅₀ & Target	G5K ^[1]	
In Vitro	Glutamate-5-kinase-IN-2 (compound 54) (40 μM) inhibits G5K activity with an I _{0.5} of 33 μM at 10 mM concentration of L-G and ATP ^[1] . Glutamate-5-kinase-IN-2 (5, 10, 20 μM) shows no relevant cytotoxicity in HepG2 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Panciera M, et al. Discovery of 3H-pyrrolo[2,3-c]quinolines with activity against Mycobacterium tuberculosis by allosteric inhibition of the glutamate-5-kinase enzyme. Eur J Med Chem. 2022 Mar 15;232:114206.

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

Product Data Sheet

