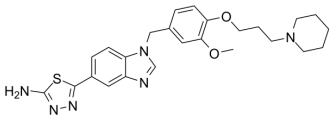
Glutaminyl cyclases-IN-1

Cat. No.:	HY-151132
Molecular Formula:	$C_{25}H_{30}N_6O_2S$
Molecular Weight:	478.61
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Glutaminyl cyclases-IN-1 (IsoQC-IN-1) is a potent glutaminyl cyclases (QC) inhibitor with IC_{50} values of 12 nM and 73 nM for human QC and isoQC, respectively. Glutaminyl cyclases-IN-1 can selectively interfere with the interaction of CD47/SIRPα through isoQC inhibition, and enhances the increased phagocytic activity of both THP-1 and U937 macrophages[1].
IC_{50} & Target	IC_{50}: 12 nM (human QC), 73 nM (iso QC)[1]
In Vitro	Glutaminyl cyclases-IN-1 (compound 22b) (0-20 μM; 24 or 48 h; A549 and H1975) increases the phagocytic activity of both THP-1 and U937 macrophages in a dose-dependent manner in A549 and H1975 cells; decreases the surface expression level of αhCD47-CC2C6 without interfering in αhCD47-B6H12 binding with CD47[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Eunsun Park, et al. 2-Amino-1,3,4-thiadiazoles as Glutaminyl Cyclases Inhibitors Increase Phagocytosis through Modification of CD47-SIRPα Checkpoint. ACS Med. Chem. Lett. 2022.

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