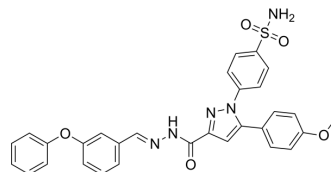


COX-2-IN-42

Cat. No.:	HY-162385
Molecular Formula:	C ₃₀ H ₂₅ N ₅ O ₅ S
Molecular Weight:	567.62
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	COX-2-IN-42 (Compound T1) is a COX-2 inhibitor, and protects zebrafish against PTZ-induced neuronal damage ^[1] .	
IC ₅₀ & Target	COX-2	
In Vivo	COX-2-IN-42 (50-150 μM, i.p.) protects Zebrafish against Pentylene-tetrazole (PTZ) induced neuronal damage and epilepsy-like conditions in zebrafish model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Pentylenetetrazole (10 mM) induced zebrafish model ^[1]
	Dosage:	50-150 μM
	Administration:	i.p., 5 days a week for 4 week.
	Result:	Increased survival, decreased ROS, prevented apoptosis and decreased macrophage localization. Reduced the expression of COX-2 in brain tissue.

REFERENCES

[1]. Murugan R, et al. Neuroprotective potential of pyrazole benzenesulfonamide derivative T1 in targeted intervention against PTZ-induced epilepsy-like condition in in vivo zebrafish model. *Int Immunopharmacol.* 2024 Mar 15;131:111859.

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