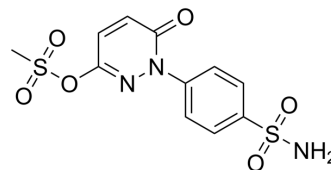


Anti-inflammatory agent 67

Cat. No.:	HY-163116
Molecular Formula:	C ₁₁ H ₁₁ N ₃ O ₆ S ₂
Molecular Weight:	345.35
Target:	COX; Carbonic Anhydrase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anti-inflammatory agent 67 (compound 7a) is a dual inhibitor of carbonic anhydrase and COX-2, a sulfonamide derivative of Polmaxcoxib (HY-16726), and has anti-inflammatory properties and analgesic activity. Anti-inflammatory agent 67 has IC ₅₀ s of 10.4 μM and 50 nM for COX-1 and COX-2, respectively. The Ki of anti-inflammatory agent 67 binding to different isoforms of carbonic anhydrase are 48.3 nM (CA I), 42.2 nM (CA II), 52.3 nM (CA IX), and 13.3 nM (CA XII) ^[1] .
IC ₅₀ & Target	10.4 μM (COX-1), 50 nM (COX-2) ^[1] Ki: 48.3 nM (CA I), 42.2 nM (CA II), 52.3 nM (CA IX), 13.3 nM (CA XII) ^[1]

REFERENCES

[1]. Badawi WA, et al. Identification of new 4-(6-oxopyridazin-1-yl)benzenesulfonamides as multi-target anti-inflammatory agents targeting carbonic anhydrase, COX-2 and 5-LOX enzymes: synthesis, biological evaluations and modelling insights. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2201407.

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