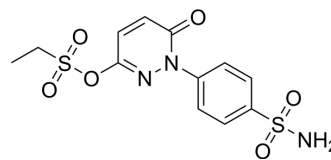


## Anti-inflammatory agent 68

Cat. No.:	HY-163117
Molecular Formula:	C <sub>12</sub> H <sub>13</sub> N <sub>3</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	359.38
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 68 (compound 7b) is a dual inhibitor of carbonic anhydrase and COX-2, a sulfonamide derivative of Polmaxcoxib (HY-16726), with anti-inflammatory properties and analgesic activity. Anti-inflammatory agent 68 has IC <sub>50</sub> s of 12.6 μM and 60 nM for COX-1 and COX-2, respectively. The Ki of anti-inflammatory agent 68 binding to different isoforms of carbonic anhydrase are 52.6 nM (CA I), 79.1 nM (CA II), 58.1 nM (CA IX), and 17.2 nM (CA XII) <sup>[1]</sup> .
IC <sub>50</sub> & Target	12.6 μM (COX-1), 60 nM (COX-2) <sup>[1]</sup> Ki: 52.6 nM (CA I), 79.1 nM (CA II), 58.1 nM (CA IX), 17.2 nM (CA XII) <sup>[1]</sup>

### 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