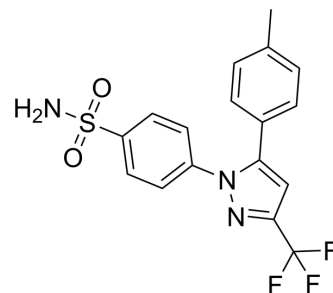


Celecoxib (GMP Like)

Cat. No.:	HY-14398GL
CAS No.:	169590-42-5
Molecular Formula:	C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S
Molecular Weight:	381.37
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Celecoxib (SC 58635) GMP Like is a GMP-class Celecoxib (HY-14398). Celecoxib, a selective non-steroidal anti-inflammatory drug (NSAID), is a selective COX-2 inhibitor with an IC ₅₀ of 40 nM.
IC₅₀ & Target	IC ₅₀ : 40 nM (COX-2), 15 μM (COX-1) ^[1]

CUSTOMER VALIDATION

- Nat Biomed Eng. 2018 Aug;2(8):578-588.
- Biomaterials. 16 September 2022.
- Hepatology. 2023 Feb 1;77(2):456-465.
- Theranostics. 2023 Feb 21; 13(4): 1381-1400.
- J Exp Clin Cancer Res. 2020 Jun 16;39(1):113.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Penning TD, et al. Synthesis and biological evaluation of the 1,5-diarylpyrazole class of cyclooxygenase-2 inhibitors: identification of 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide (SC-58635, celecoxib). J Med Chem. 1997
- [2]. Liu DB, et al. Celecoxib induces apoptosis and cell-cycle arrest in nasopharyngeal carcinoma cell lines via inhibition of STAT3 phosphorylation. Acta Pharmacol Sin. 2012 May;33(5):682-90.
- [3]. Suri A, et al. The effect of celecoxib on tumor growth in ovarian cancer cells and a genetically engineered mouse model of serous ovarian cancer. Oncotarget. 2016 Apr 8.
- [4]. Hou XL, et al. Combination of fasudil and celecoxib promotes the recovery of injured spinal cord in rats better than celecoxib or fasudil alone. Neural Regen Res. 2015 Nov;10(11):1836-40.
- [5]. Liu C, et al. Celecoxib alleviates nonalcoholic fatty liver disease by restoring autophagic flux. Sci Rep. 2018 Mar 7;8(1):4108.

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