
Product Data Sheet

Product Name: COX-2-IN-1

Cat. No.: GC31962

Chemical Properties

Cas. No. 787623-48-7

SMILES O=S(C1=CC=C(N2N=C(C(F)(F)F)CC2C3=CNC4=C3C=CC=C4Cl)C=C1)(N)=OFormula C18H14ClF3N4O2S M.Wt 442.84

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

COX-2-IN-1 is potent and selective COX-2 inhibitor with an IC₅₀ of 3.9 μM.

COX-2-IN-1 (compound 5f) is an inhibitor of COX-1 and COX-2 with IC₅₀s of >100 and 3.9 μM, respectively. Comparison of 5b and COX-2-IN-1 shows that smaller halogen atom at 5th position on the indole ring enhances COX-2 enzyme inhibition activity, whereas the presence of a larger bromine atom at 6th position of the ring improves the inhibitory activity (5d, 5e and 5h) of the compound[1].

[1]. Reddy MV, et al. Design, synthesis, and biological evaluation of 1-(4-sulfamylphenyl)-3-trifluoromethyl-5-indolyl pyrazolines as cyclooxygenase-2 (COX-2) and lipoxygenase (LOX) inhibitors. *Bioorg Med Chem.* 2008 Apr 1;16(7):3907-16.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA