
Product Data Sheet

Product Name: COX/5-LO-IN-1

Cat. No.: GC31967

Chemical Properties

Cas. No. 154355-75-6

SMILES O=C(N)N(C(C)C#CC1=CC=C(CC2=CC=C(F)C=C2)S1)OFormula $C_{16}H_{15}FN_2O_2S$ M.Wt 318.37

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/5-LO-IN-1 is an inhibitor of cyclooxygenase and 5-lipoxygenase, used for the research of inflammatory and allergic disease states.

COX/5-LO-IN-1 reduces the biosynthesis of leukotrienes B₄, C₄, D₄, and E₄ and cyclooxygenase products such as prostaglandins and thromboxane and are useful in the treatment of inflammatory and allergic disease states[1]. COX/5-LO-IN-1 shows inhibitory activities against 5-lipoxygenase, with IC₅₀ of 0.2 μM in human whole blood[2].

[1]. Lipoxygenase and cyclooxygenase inhibiting compounds. US 5516789 A [2]. Brooks CD, et al. (R)-(+)-N-[3-[5-[(4-fluorophenyl)methyl]-2-thienyl]-1-methyl-2-propynyl]-N-hydroxyurea (ABT-761), a second-generation 5-lipoxygenase inhibitor. J Med Chem. 1995 Nov 24;38(24):4768-75.

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