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**Product Data Sheet**


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Product Name: CAY10589

Cat. No.: GC18688

**Chemical Properties**

Cas. No. 1077626-52-8

Chemical Name N/A

SMILES C1C=CC(NCC2=CC=C(C3=CC=CC=C3)C=C2)=NC(SC(C(O)=O)CCCCC)=N1Formula  $C_{25}H_{28}ClN_3O_2S$  M.Wt 470Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, DMSO:PBS(pH7.2) (1:1): 0.5 mg/ml, Ethanol: 10 mg/ml  
Store Storage 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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Microsomal Prostaglandin E2 Synthase-1 (mPGES-1), with cyclooxygenase-2 (COX-2), synthesizes PGE2, which is directly involved in signaling during inflammation, fever and pain. 5-Lipoxygenase (5-LO) initiates the synthesis of leukotrienes (LTs), which are pro-inflammatory mediators. CAY10589 is a dual inhibitor of mPGES-1 (IC50 = 1.3 μM) and 5-LO (IC50 = 1.0 μM). It effectively inhibits PGE2 and LT synthesis in both cell free and intact cell assays. CAY10589 has minor effects on COX-1 and COX-2, inhibiting these enzymes 34% and 38.8%, respectively, at 10 μM.

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

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