

Product Data Sheet

Product Name: Prostaglandin E2 Inhibitor 3

Cat. No.: GC90777

Chemical Properties

Cas. No.

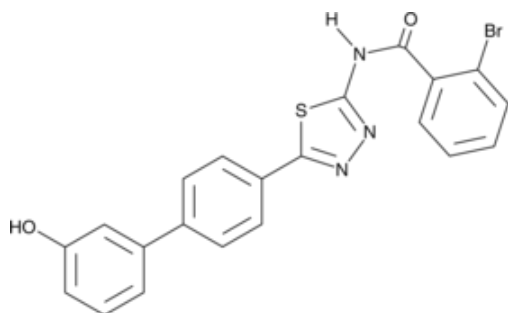
Formula $C_{21}H_{14}BrN_3O_2S$ M.Wt 452.3

Solubility DMSO: Soluble, Ethanol: Soluble 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

Prostaglandin E₂ (PGE₂) inhibitor 3 is an inhibitor of microsomal prostaglandin E synthase-1 (mPGES-1; IC₅₀ = 0.2 μM).¹ It is selective for mPGES-1 over COX-1, COX-2, 5-lipoxygenase (5-LO), and soluble epoxide hydrolase (sEH) in cell-free assays at 10 μM. PGE₂ inhibitor 3 inhibits IL-1β-induced production of PGE₂ in A549 cells and LPS-induced IL-6 and PGE₂ production in J774A.1 macrophages when used at concentrations of 10 and 1 μM, respectively. It also inhibits the formation of 5-LO products, including leukotriene B₄ and 5-H(p)ETE, induced by the calcium ionophore A23187 alone or with arachidonic acid and A23187 (IC₅₀s = 4.9 and 5.2 μM, respectively). *In vivo*, PGE₂ inhibitor 3 (10 mg/kg) prevents leukocyte infiltration into the peritoneal fluid in a mouse model of zymosan-induced peritonitis.

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

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