

Product Data Sheet

Product Name: PTGR2-IN-1

Cat. No.: GC61506

Chemical Properties

Cas. No. 349093-44-3

SMILES COC1=CC=CC=C1N2CCN(C(CC3=CC=CC=C3)=O)CC2

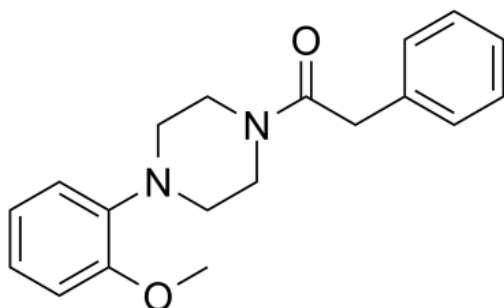
Formula $C_{19}H_{22}N_2O_2$ M.Wt 310.39

Solubility DMSO: 100 mg/mL (322.18 mM) 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

PTGR2-IN-1 is a potent PTGR2 inhibitor with an IC₅₀ of ~0.7 μM. PTGR2-IN-1 increases 15-keto-PGE₂-dependent PPAR_γ transcriptional activity in PTGR2-transfected HEK293T cells[1].

A screen of structural analogs of 20 identified PTGR2-IN-1, which shows substantially increased potency (>20-fold) in assays measuring either competition of 8-labeling or 15-keto-PGE₂ reductase activity (IC₅₀ = 0.6 μM) of recombinant PTGR2, as well as an inactive control compound 23. PTGR2-IN-1 (Compound 22) blocks FFF 8 labeling of endogenous PTGR2 in HEK293T cells with good

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

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potency (complete inhibition at 5 μ M and ~80% inhibition at 500 nM) and excellent selectivity[1].

[1]. Parker CG, et al. Ligand and Target Discovery by Fragment-Based Screening in Human Cells. Cell. 2017;168(3):527-541.e29.

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