P2Y2R/GPR17 antagonist 1

Cat. No.: HY-146486

CAS No.: 2395016-49-4

Molecular Formula: $C_{19}H_{13}ClN_2O_6S$

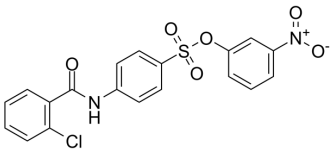
Molecular Weight: 432.83

Target: P2Y Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (288.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3104 mL	11.5519 mL	23.1038 mL
	5 mM	0.4621 mL	2.3104 mL	4.6208 mL
	10 mM	0.2310 mL	1.1552 mL	2.3104 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

P2Y2R/GPR17 antagonist 1 (Compound 14m) is a dual $P2Y_2R$ and GPR17 antagonist with IC_{50} values of 3.17 μM and 1.67 μM against $P2Y_2R$ and GPR17, respectively. P2Y2R/GPR17 antagonist 1 shows excellent metabolic stability in human liver microsomes[1].

IC_{50} & Target

IC_{50}: 1.67 μM (GPR17), 3.17 μM ($P2Y_2R$)[1]

REFERENCES

[1]. Pillaiyar T, et al. Design, synthesis and biological evaluation of suramin-derived dual antagonists of the proinflammatory G protein-coupled receptors P2Y2 and GPR17. Eur J Med Chem. 2020 Jan 15;186:111789.

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

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