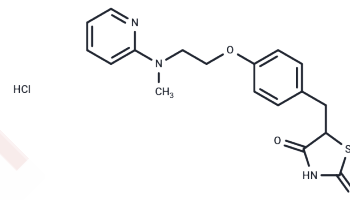


Rosiglitazone hydrochloride

Chemical Properties

CAS No. :	302543-62-0
Formula:	C ₁₈ H ₁₉ N ₃ O ₃ S·HCl
Molecular Weight:	393.89
Appearance:	no data available
Storage:	store at low temperature
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Rosiglitazone hydrochloride (BRL-49653 HCl) is a blood glucose-lowering drugs, stimulating insulin secretion by binding to the PPAR receptors in fat cells.
Targets(IC50)	Ferroptosis, Autophagy, PPAR, TRP/TRPV Channel
In vitro	Bafetinib blocks WT Bcr-Abl autophosphorylation and its downstream kinase activity with IC50 of 11 nM and 22 nM in K562 and 293T cells, respectively. Bafetinib suppresses the growth of the Bcr-Abl-positive cell lines including K562, KU812, and BaF3/wt cells potently without effects on the proliferation of the Bcr-Abl-negative U937 cell line. Moreover, Bafetinib exhibits a dose-dependent antiproliferative effect against Bcr-Abl point mutant cell lines, such as BaF3/E255K cells. [1] In Bcr-Abl+ leukemia cell lines, Bafetinib induces both caspase-mediated and caspase-independent cell death by blocking the phosphorylation of Bcr-Abl. [2]

Solubility Information

Solubility	Ethanol: 73 mg/mL (185.33 mM), Sonication is recommended. DMSO: 73 mg/mL (185.33 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5388 mL	12.6939 mL	25.3878 mL
5 mM	0.5078 mL	2.5388 mL	5.0776 mL
10 mM	0.2539 mL	1.2694 mL	2.5388 mL
50 mM	0.0508 mL	0.2539 mL	0.5078 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ben-Hander GM, Makahleh A, Saad B, Saleh MI, Cheng KW. Talanta. 2015 Jan;131:590-6.

He L, Wickremasingha P, Lee J, Tao B, Mendell-Harary J, Walker J, Wight D. Diabetes Res Clin Pract. 2014 Jun;104(3):401-9.

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