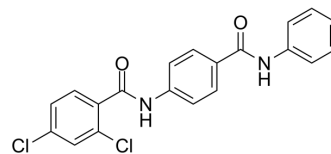


CID 1375606

Cat. No.:	HY-114146		
CAS No.:	313493-80-0		
Molecular Formula:	C ₂₀ H ₁₄ Cl ₂ N ₂ O ₂		
Molecular Weight:	385.24		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 53.33 mg/mL (138.43 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5958 mL	12.9789 mL	25.9578 mL
	5 mM	0.5192 mL	2.5958 mL	5.1916 mL
	10 mM	0.2596 mL	1.2979 mL	2.5958 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.67 mg/mL (6.93 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.67 mg/mL (6.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CID 1375606 is a surrogate agonist of orphan G protein-coupled receptor GPR27.

IC₅₀ & Target

GPR 27^[1].

In Vitro

CID 1375606 is a GPR27-specific surrogate agonist. GPR27 is characterized by a high level of conservation among vertebrates and a predominant expression in the central nervous system. In addition, it has recently been linked to insulin secretion^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dupuis N, et al. Activation of the Orphan G Protein-Coupled Receptor GPR27 by Surrogate Ligands Promotes β -Arrestin 2 Recruitment. Mol Pharmacol. 2017 Jun;91(6):595-608.

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

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