cis-Epoxysuccinic acid

MedChemExpress

Cat. No.:	HY-125791
CAS No.:	16533-72-5
Molecular Formula:	C ₄ H ₄ O ₅
Molecular Weight:	132
Target:	Succinate Receptor 1
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

OH HO 0

Product Data Sheet

SOLVENT & SOLUBILITY

DMSO : ≥ 250 mg/mL (1893.94 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.5758 mL	37.8788 mL	75.7576 mL
	5 mM	1.5152 mL	7.5758 mL	15.1515 mL
	10 mM	0.7576 mL	3.7879 mL	7.5758 mL

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

DIOLOGICAL ACTIV		
Description	cis-Epoxysuccinic acid is a s EC ₅₀ value of 2.7 μM. cis-Epo	succinate receptor (SUCNR1/GPR91) agonist. cis-Epoxysuccinic acid inhibits cAMP levels with an oxysuccinic acid can be used for the research of cardiovascular system ^[1] .
In Vitro	cis-Epoxysuccinic acid (1-10 cis-Epoxysuccinic acid (0.1 µ MCE has not independently Cell Viability Assay ^[1]	00 μM; 10 min) affects cAMP levels of HEK293 cells ^[1] . μM-100 mM; 1 h) agonists SUCNR1 pathways without affects succinate dehydrogenase ^[1] . r confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	HEK293 cells
	Concentration:	1, 10 and 100 μM
	Incubation Time:	10 min
	Result:	Inhibited cAMP levels with an EC_{50} value of 2.7 $\mu\text{M}.$
	Cell Viability Assay ^[1]	



In Vitro

	Cell Line:	HEK293 cells
	Concentration:	0.1 μM-100 mM
	Incubation Time:	1 hour
	Result:	Induced the Gq pathway, recruited arrestin 3 and elicited $[Ca^{2+}]_i$ mobilization with EC_{50}
Vivo	cic Eponycuccipic acid (values of 42, 74 and 191 μ M, respectively.
Vivo	cis-Epoxysuccinic acid (MCE has not independe	values of 42, 74 and 191 μM, respectively. (1 mg/kg; i.v. once) has an effect on the blood pressure of rats ^[1] .
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Vivo	cis-Epoxysuccinic acid (MCE has not independe Animal Model: Dosage: Administration:	values of 42, 74 and 191 μM, respectively. (1 mg/kg; i.v. once) has an effect on the blood pressure of rats ^[1] . ently confirmed the accuracy of these methods. They are for reference only. Male Wistar rats ^[1] 1 mg/kg Intravenous injection; 1 mg/kg once

REFERENCES

[1]. Geubelle P, et al. Identification and pharmacological characterization of succinate receptor agonists. Br J Pharmacol. 2017 May;174(9):796-808.

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

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