SC-435

Cat. No.: HY-129982

CAS No.: 289037-67-8

Molecular Formula: $C_{37}H_{59}N_3O_7S_2$

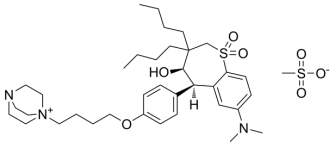
Molecular Weight: 722.01

Target: Apical Sodium-Dependent Bile Acid Transporter

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (69.25 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	1.3850 mL	6.9251 mL	13.8502 mL
5 mM	0.2770 mL	1.3850 mL	2.7700 mL
10 mM	0.1385 mL	0.6925 mL	1.3850 mL

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

BIOLOGICAL ACTIVITY

Description

SC-435 is an apical sodium-dependent Bile acid (BA) transporter inhibitor. SC-435 can alter hepatic cholesterol metabolism and lower plasma low-density lipoprotein-cholesterol concentrations[1].

IC_{50} & Target

Bile acid transporter[1]

REFERENCES

[1]. West KL, et, al. 1-[4-[4[(4R,5R)-3,3-Dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenoxy]butyl]-4-aza-1-azoniabicyclo[2.2.2]octane methanesulfonate (SC-435), an ileal apical sodium-codependent bile acid transporter inhibitor alters hepatic cholesterol metabolism and lowers plasma low-density lipoprotein-cholesterol concentrations in guinea pigs. J Pharmacol Exp Ther. 2002 Oct;303(1):293-9.

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

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