

Product Data Sheet

Lubiprostone

Cat. No.: HY-B0679

CAS No.: 136790-76-6Molecular Formula: $C_{20}H_{32}F_2O_5$ Molecular Weight: 390.46

Target: Chloride Channel

Pathway: Membrane Transporter/Ion Channel

Storage: Powder

4°C 2 years

3 years

In solvent -80°C 2 years

-20°C

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (256.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.5611 mL	12.8054 mL	25.6108 mL
	5 mM	0.5122 mL	2.5611 mL	5.1222 mL
	10 mM	0.2561 mL	1.2805 mL	2.5611 mL

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

In Vivo

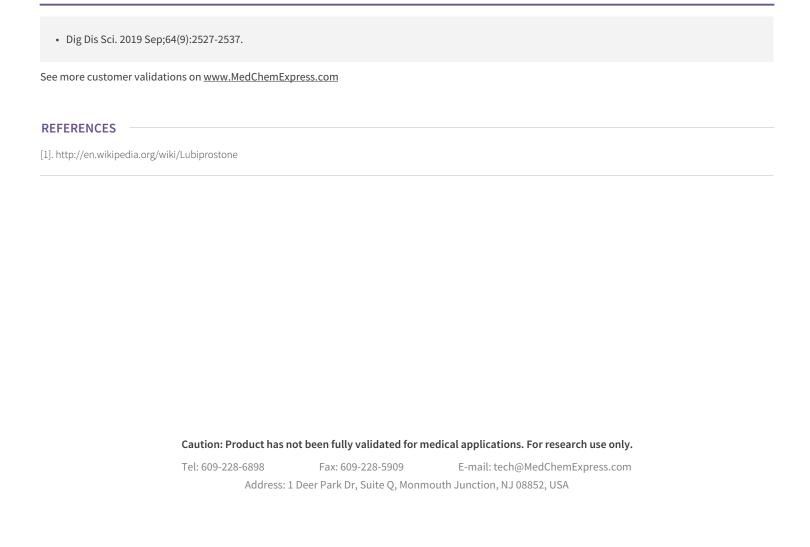
- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.25 mg/mL (8.32 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.25 mg/mL (8.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (8.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lubiprostone(SPI-0211;RU0211) is a gastrointestinal agent used for the treatment of idiopathic chronic constipation. Target: OthersLubiprostone is a bicyclic fatty acid derived from prostaglandin E1 that acts by specifically activating CIC-2 chloride channels on the apical aspect of gastrointestinal epithelial cells, producing a chloride-rich fluid secretion. These secretions soften the stool, increase motility, and promote spontaneous bowel movements (SBM). From Wikipedia.

CUSTOMER VALIDATION



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