Data Sheet (Cat.No.TP2030)

TargetMol
A DRUG SCREENING EXPERT

Gastrin I (human)

Chemical Properties

CAS No.:	10047-33-3
Formula:	C97H124N20O31S
Molecular Weight:	2098.22
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Endogenous peptide produced in the stomach that acts as a selective CCK2 receptor agonist. Stimulates gastric acid secretion. Also used in the culture of stomach organoids.

Solubility Information

Solubility	1% Ammonia: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.477 mL	2.383 mL	4.766 mL
5 mM	0.095 mL	0.477 mL	0.953 mL
10 mM	0.048 mL	0.238 mL	0.477 mL
50 mM	0.01 mL	0.048 mL	0.095 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Noble et al (1999) International union of pharmacology XXI. Structure, distribution, and functions of cholecystokinin receptors. Pharmacol.Rev. 51 745 PMID:
2. Blandizzi et al (1999) CCK1 and CCK2 receptors regulate gastric pepsinogen secretion. Eur.J.Pharmacol. 373 71 PMID:
3. Sato et al (2015) SnapShot: Growing Organoids from Stem Cells. Cell 161 1700 PMID:
4. Mahe et al (2014) Establishment of gastrointestinal epithelial organoids Curr.Protoc. Mouse Biol. 3 217 PMID:
5. Bartfeld et al (2015) In vitro expansion of human gastric epithelial stem cells and their responses to bacterial infection. Gastroenterology 148 126 PMID:

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481