

Somatostatin

Chemical Properties

CAS No. :	51110-01-1
Formula:	NA
Molecular Weight:	1637.88
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Somatostatin

Biological Description

Description	Somatostatin, also known as growth hormone-inhibiting hormone, is a naturally-occurring peptide hormone of 14 or 28 amino acid residues that regulates the endocrine system. It is secreted by the D cells of the islets to inhibit the release of insulin and glucagon, and is also generated in the hypothalamus, where it inhibits the release of growth hormone and thyroid-stimulating hormones from the anterior pituitary. Somatostatin is a tetradecapeptide which can suppress the growth hormone (GH) secretion and control the pituitary hormone secretion in human CNS.
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Solubility Information

Solubility	H ₂ O: 50 mg/mL (30.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6105 mL	3.0527 mL	6.1055 mL
5 mM	0.1221 mL	0.6105 mL	1.2211 mL
10 mM	0.0611 mL	0.3053 mL	0.6105 mL
50 mM	0.0122 mL	0.0611 mL	0.1221 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Msaouel P, et al. Somatostatin and somatostatin receptors: implications for neoplastic growth and cancer biology. Expert Opin Investig Drugs. 2009 Sep;18(9):1297-316.

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