

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

Somatostatin

Product overview

Name	Somatostatin
Cat No	HB3088
Biological description	Overview

The somatostatin peptide is distributed in many locations including the CNS, PNS, endocrine pancreas and the gut.

It exerts inhibitory effects on various organs and is involved in various physiological and pathophysiological processes.

Uses and applications

Somatostatin regulates endocrine, autocrine and paracrine function and controls secretion of various hormones (growth, pituitary, pancreatic and gastrointestinal hormones etc.).

It also acts as a neurotransmitter and is localized in a subset of interneurons. It is involved in synaptic plasticity, neuronal activity and memory formation. It acts both pre- and postsynaptically to affect excitability and neuronal responses.

Alternative names	SS, SST, SOM, GHIH, GHRIH, SRIF, SRIH
Biological action	Peptide
Purity	>95%
Description	Regulatory neuropeptide

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (0.3 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	AGCKNFFWKTFTSC (modifications: Disulfide bridge between 3 - 14)
Molecular Weight	1637.88
Chemical structure	
Molecular Formula	C ₇₆ H ₁₀₄ N ₁₈ O ₁₉ S ₂
Sequence (one letter)	AGCKNFFWKTFTSC
Modifications	Disulfide bridge between 3 - 14
CAS Number	51110-01-1
PubChem identifier	16129681
SMILES	CC(C1C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(CSSCC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)N1)CCCCN)CC2=CNC3=CC=C32)CC4=CC=CC=C4)CC5=CC=CC=C5)CC(=O)N)CCCCN)NC(=O)CNC(=O)C(C)N)C(=O)O)CO)C(C)O)CC6=CC=CC=C6)O
InChiKey	NHXLMOGPVYXJNR-UHFFFAOYSA-N
MDL number	MFCD00076762
Protein length	14

References

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Ballian N *et al* (2006) Pancreas 33(1)

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Somatostatin and its receptor family

Patel YC (1999) Front Neuroendocrinol 20(3)

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