

Somatostatin (1-106): sc-4467 WB

BACKGROUND

Somatostatin is a regulatory hormone that is expressed throughout the body and inhibits the release of numerous secondary hormones by binding to high-affinity G-protein-coupled somatostatin receptors. This cyclic tetradecapeptide inhibits the secretion of many important hormones, including somatotropin (also designated growth hormone, or GH), insulin, and glucagon. Somatostatin is found in both the hypothalamus and in the pancreas. Somatostatin is thought to be involved in the regulation of insulin synthesis. The hormone somatostatin has active 14 amino acid and 28 amino acid forms that are produced by alternate cleavage of the single preproprotein encoded by this gene. In the cerebellum, somatostatin-14 and somatostatin-28 are highly expressed at birth and in the adult stage, respectively. Somatostatin affects rates of neurotransmission in the central nervous system and proliferation of both normal and tumorigenic cells. The gene encoding somatostatin maps to human chromosome 3q28.

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SOURCE

Somatostatin (1-106) is expressed in *E. coli* as a 39 kDa tagged fusion protein corresponding to amino acids 1-106 of Somatostatin of human origin.

PRODUCT

Somatostatin (1-106) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Somatostatin (1-106) is suitable as a Western blotting control for sc-13099.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.