

<b>Name</b>	<b>Octreotide Acetate</b>
<b>Cat #</b>	PP-1560
<b>Size</b>	100 mg and bulk custom packages
<b>CAS#</b>	83150-76-9
<b>Mol. Mass</b>	1019.26
<b>Formula</b>	C <sub>49</sub> H <sub>66</sub> N <sub>10</sub> O <sub>10</sub> S <sub>2</sub>
<b>Sequence</b>	H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-Cys-Thr
<b>Purity</b>	99.27%
<b>Appearance</b>	White to off white powder

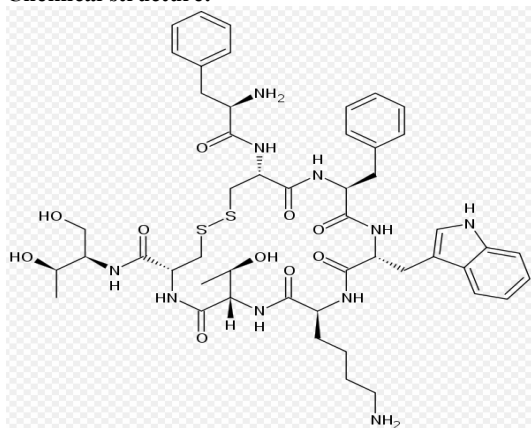
#### Description:

Octreotide is similar to a natural chemical called somatostatin. Somatostatin is produced in the body by the hypothalamus. One of its functions is to "switch off" the secretion of growth hormone by the pituitary gland. Somatostatin also decreases splanchnic blood flow and inhibits the release of serotonin, gastrin, vasoactive intestinal peptide, secretin, motilin and pancreatic polypeptide.

Octreotide (brand name Sandostatin, Novartis Pharmaceuticals) is an octapeptide that mimics natural somatostatin pharmacologically, though it is a more potent inhibitor of growth hormone, glucagon, and insulin than the natural hormone. It was first synthesized in 1979 by the chemist Wilfried Bauer.

Since octreotide resembles somatostatin in physiological activities, it can: Inhibit secretion of many hormones, such as gastrin, cholecystokinin, glucagon, growth hormone, insulin, secretin, pancreatic polypeptide, TSH, and vasoactive intestinal peptide. Reduce secretion of fluids by the intestine and pancreas. Reduce gastrointestinal motility and inhibits contraction of the gallbladder. Inhibit the action of certain hormones from the anterior pituitary. Cause vasoconstriction in the blood vessels. It has also been shown to produce analgesic effects, most probably acting as a partial agonist at the mu opioid receptor.

#### Chemical structure:



#### Related items:

Catalog# Prod Description

PP-1560 Octreotide Acetate

SP-50201-5 Octreotide Acetate [D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-OI (Disulfide Bridge Cys2-Cys7);

MW: 119.2]

PP-1560

rev.131205P

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