



# LKT Laboratories, Inc.

## Octreotide Acetate

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### Product Information

**Product ID** O1078

**CAS No.** 79517-01-4

**Chemical Name** D-Phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic (2->7)-disulfide acetate (salt)

**Synonym** Sandostatin

**Formula**  $C_{49}H_{66}N_{10}O_{10}S_2 \cdot 2C_2H_4O_2$

**Formula Wt.** 1139.36

**Melting Point**

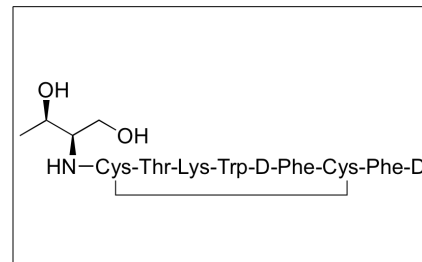
**Purity**  $\geq 95\%$

**Solubility** Soluble in methanol.  
Soluble in water.

**Store Temp**  $-20^{\circ}C$

**Ship Temp** Ambient

**Description** Octreotide is a somatostatin peptide analog that acts at somatostatin receptors and inhibits the release of growth hormone. Octreotide exhibits anticancer, anti-fibrotic, anti-inflammatory, and immunomodulatory activities. Octreotide inhibits colon cancer cell growth through the suppression of Wnt/B-catenin signaling. Octreotide inhibits hepatic stellate cell proliferation, downregulating the expression of TGF- $\beta$ ,  $\alpha$ -SMA, Smad-4a, c-Jun, sp-1, ET-1, and collagen; it is also protective against fibrosis in animal models. Additionally, octreotide inhibits peripheral blood mononuclear cell proliferation, decreasing levels of IL-6, IL-10, and IFN- $\gamma$  and producing clinical improvements in subjects with systemic lupus erythematosus.



**Bulk quantities available upon request**

Product ID	Size
O1078	1 mg
O1078	5 mg
O1078	25 mg

**References** Wang S, Bao Z, Liang QM, et al. Octreotide stimulates somatostatin receptor-induced apoptosis of SW480 colon cancer cells by activation of glycogen synthase kinase-3 $\beta$ , a Wnt/B-catenin pathway modulator. *Hepatogastroenterology*. 2013 Oct;60(127):1639-46. PMID: 24634935.

Wang J, Wang L, Song G, et al. The mechanism through which octreotide inhibits hepatic stellate cell activity. *Mol Med Rep*. 2013 May;7(5):1559-64. PMID: 23525276.

Tug T, Kara H, Karaoglu A, et al. The effect of octreotide, an analog of somatostatin, on bleomycin-induced interstitial pulmonary fibrosis in rats. *Drug Chem Toxicol*. 2013 Apr;36(2):181-6. PMID: 22946449.

Zhang Y, Huang W, Li F, et al. Octreotide for the treatment of systemic lupus erythematosus: clinical effects and an in vitro study on its therapeutic mechanism. *Lupus*. 2011 Oct;20(11):1172-81. PMID: 21979989.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.