



LKT Laboratories, Inc.

Uroguanylin, human

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Product Information

Product ID U6956

CAS No. 154525-25-4

Chemical Name

Synonym

Formula $C_{64}H_{102}N_{18}O_{26}S_4$

Formula Wt. 1667.89

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

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

Ship Temp Ambient

Description Uroguanylin is an endogenous natriuretic peptide that modulates activity through Na^{+}/H^{+} exchangers in intestinal and renal tissues, altering electrolyte and water transport. Uroguanylin activates guanylyl cyclase receptors to increase cGMP production. Uroguanylin also increases activity of Cl^{-} channels. Uroguanylin inhibits bicarbonate reabsorption and increases net water secretion through signaling cascades mediated by PKA and PKG.

H-Asn-Asp-Asp-Cys-Glu-Leu-
Cys-Val-Asn-Val-Ala-Cys-Thr-
Gly-Cys-Leu-OH
(Cys4-Cys12, Cys7-Cys15)

Pricing and Availability

Bulk quantities available upon request

| Product ID | Size | List Price |
|------------|--------|------------|
| U6956 | 0.5 mg | \$239.40 |
| U6956 | 1 mg | \$406.40 |
| U6956 | 2.5 mg | \$718.30 |

References Teixeira MD, Nascimento NR, Fonteles MC, et al. Uroguanylin induces electroencephalographic spikes in rats. *Braz J Biol.* 2013 Aug;73(3):623-7. PMID: 24212704.

Lessa LM, Carraro-Lacroix LR, Crajoinas RO, et al. Mechanisms underlying the inhibitory effects of uroguanylin on NHE3 transport activity in renal proximal tubule. *Am J Physiol Renal Physiol.* 2012 Nov 15;303(10):F1399-408. PMID: 22952280.

Toriano R, Ozu M, Politi MT, et al. Uroguanylin regulates net fluid secretion via the NHE2 isoform of the Na^{+}/H^{+} exchanger in an intestinal cellular model. *Cell Physiol Biochem.* 2011;28(4):733-42. PMID: 22178885.

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