



LKT Laboratories, Inc.

## Urotensin II, human

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### Product Information

**Product ID** U6959

**CAS No.** 251293-28-4

**Chemical Name**

**Synonym**

**Formula** C<sub>64</sub>H<sub>85</sub>N<sub>13</sub>O<sub>18</sub>S<sub>2</sub>

**Formula Wt.** 1388.6

**Melting Point**

**Purity** ≥95%

**Solubility** Soluble in water (1 mg/mL).

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Urotensin II is a peptide ligand that binds the urotensin II (UT) receptor and can be used as a biomarker for hypertension and type 2 diabetes. Urotensin II increases expression of IL-6, IL-1B, VCAM-1, and tissue factor in vitro, exhibiting pro-inflammatory activity. Urotensin II also inhibits glucose transport through modulation of NADPH oxidase signaling, which increases levels of ROS and decreases phosphorylation of Akt, ERK1/2, and p38 MAPK. Additionally, urotensin II can induce apoptosis in cardiac tissue cells and can induce relaxation in smooth muscle cells.

H-Glu-Thr-Pro-Asp-Cys-Phe-  
Lys-Tyr-Cys-Val-OH  
(Disulfide bridge Cys<sub>5</sub>-Cys<sub>10</sub>)

**Bulk quantities available upon request**

Product ID	Size
U6959	0.5 mg
U6959	1 mg
U6959	2.5 mg

**References** Peng H, Zhang M, Cai X, et al. Association between Human Urotensin II and Essential Hypertension-A 1:1 Matched Case-Control Study. *PLoS One*. 2013 Dec 10;8(12):e81764. PMID: 24339964.

Wang HX, Wu XR, Yang H, et al. Urotensin II inhibits skeletal muscle glucose transport signaling pathways via the NADPH oxidase pathway. *PLoS One*. 2013 Oct 8;8(10):e76796. PMID: 24116164.

Park SL, Lee BK, Kim YA, et al. Inhibitory Effect of an Urotensin II Receptor Antagonist on Proinflammatory Activation Induced by Urotensin II in Human Vascular Endothelial Cells. *Biomol Ther (Seoul)*. 2013 Jul 30;21(4):277-83. PMID: 24244812.

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