



LKT Laboratories, Inc.

Urotensin II, frog

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Product Information

Product ID U6958

CAS No.

Chemical Name

Synonym

Formula $C_{69}H_{96}N_{16}O_{19}S_2$

Formula Wt. 1517.76

Melting Point

Purity $\geq 95\%$

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-18, 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-Ala-Gly-Asn-Leu-Ser-Glu-Cys-Phe-Trp-Lys-Tyr-Cys-Val-OH
(Disulfide bridge Cys⁷-Cys¹²)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
U6958	0.5 mg	\$214.30
U6958	1 mg	\$365.40
U6958	2.5 mg	\$643.00

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.