



LKT Laboratories, Inc.

Uperolein

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## Product Information

Product ID U6118

CAS No. 55601-63-3

Chemical Name

Synonym

Formula  $C_{57}H_{79}N_{13}O_{16}S$

Formula Wt. 1234.42

Melting Point

Purity  $\geq 95\%$

Solubility Soluble in water.

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

Ship Temp Ambient

**Description** Uperolein is a physalaemin-like endecapeptide that acts as a tachykinin, binding the neurokinin-1 (NK1) receptor. Uperolein induces spasmogenic activity in smooth muscle cells in the stomach. Uperolein was initially found in the skin of species of *Uperoleia* and *Taudactylus* frogs.

pGlu-Pro-Asp-Pro-Asn-Ala-Phe-Tyr-Gly-Leu-Met-NH<sub>2</sub>

**Bulk quantities available upon request**

Product ID	Size
U6118	1 mg
U6118	2 mg
U6118	5 mg

**References** Dike A, Cowsik SM. Solution structure of amphibian tachykinin Uperolein bound to DPC micelles. *J Struct Biol.* 2006 Dec;156(3):442-52. PMID: 16979908.

Bertaccini G, Coruzzi G. Action of some natural peptides on the stomach of the anaesthetized rat. *Naunyn Schmiedebergs Arch Pharmacol.* 1977 Jun;298(2):163-6. PMID: 882154.

Erspamer V, Negri L, Erspamer GF, et al. Uperolein and other active peptides in the skin of the Australian leptodactylid frogs *Uperoleia* and *Taudactylus*. *Naunyn Schmiedebergs Arch Pharmacol.* 1975;289(1):41-54. PMID: 1186916.

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