



# LKT Laboratories, Inc.

## Guanylin, rat/mouse

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### Product Information

Product ID G8104  
CAS No. 144940-98-7

#### Chemical Name

#### Synonym

Formula  $C_{60}H_{90}N_{16}O_{22}S_4$   
Formula Wt. 1515.74

#### Melting Point

Purity  $\geq 95\%$

Solubility Soluble in water.

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

Ship Temp Ambient

**Description** Guanylin is a gastrointestinal peptide hormone that activates guanyl cyclase C primarily in intestinal epithelial cells, but also in neurons. Guanylin increases intracellular levels of cGMP and induces natriuresis and diuresis in the kidney. Guanylin inhibits cell proliferation of colonic cells, inducing cell cycle arrest.

H-Pro-Asn-Thr-Cys-Glu-Ile-Cys-  
Ala-Tyr-Ala-Ala-Cys-Thr-Gly-Cys-  
OH (Cys4-Cys12, Cys7-Cys15)

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
G8104	0.5 mg	\$225.80
G8104	1 mg	\$406.40
G8104	2.5 mg	\$813.80

**References** Basu N, Saha S, Khan I, et al. Intestinal cell proliferation and senescence are regulated by receptor guanylyl cyclase C and p21. *J Biol Chem.* 2014 Jan 3;289(1):581-93. PMID: 24217248.

Fonteles MC, do Nascimento NR. Guanylin peptide family: history, interactions with ANP, and new pharmacological perspectives. *Can J Physiol Pharmacol.* 2011 Aug;89(8):575-85. PMID: 21815750.

Forte LR, Freeman RH, Krause WJ, et al. Guanylin peptides: cyclic GMP signaling mechanisms. *Braz J Med Biol Res.* 1999 Nov;32(11):1329-36. PMID: 10559833.

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