



LKT Laboratories, Inc.

α -Conotoxin GI

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C5655

CAS No. 76862-65-2

Chemical Name

Synonym

Formula $C_{55}H_{80}N_{20}O_{18}S_4$

Formula Wt. 1437.61

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water, PBS.

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

Ship Temp Ambient

Description α -Conotoxin GI is a peptide inhibitor of nicotinic acetylcholine receptors (nAChRs) originally found in species of *Conus* snails. α -Conotoxin GI binds nAChRs at $\alpha\gamma$ and $\alpha\delta$ interfaces. α -Conotoxin GI decreases peak amplitude and induces tetanic and train-of-four fades, modulating acetylcholine signaling at the neuromuscular junction.

H-Glu-Cys-Cys-Asn-Pro-Ala-Cys-Gly-Arg-His-Tyr-Ser-Cys-NH₂
(Cys2-Cys7, Cys3-Cys13)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C5655	0.5 mg	\$138.60
C5655	1 mg	\$236.30
C5655	2.5 mg	\$415.90

References Hann RM, Pagán OR, Gregory LM, et al. The 9-arginine residue of alpha-conotoxin GI is responsible for its selective high affinity for the alphasigma agonist site on the electric organ acetylcholine receptor. *Biochemistry*. 1997 Jul 22;36(29):9051-6. PMID: 9220994.

Blount K, Johnson A, Prior C, et al. alpha-Conotoxin GI produces tetanic fade at the rat neuromuscular junction. *Toxicon*. 1992 Aug;30(8):835-42. PMID: 1355934.

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