



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

α -Bungarotoxin from *Bungarus multicinctus*

Product Number **T 3019**
Storage Temperature -20 °C

Product Description

Molecular weight: 7.983 kDa¹

α -Bungarotoxin consists of a single polypeptide chain of 74 amino-acid residues internally cross-linked with 5 disulfide bridges.¹

The protein has been used to assay for acetylcholine receptors. The dissociation constant for the bungarotoxin receptor is approximately 10 nM.² α -Bungarotoxin is reported to interact with rat brain tachykinin receptors.³

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

α -Bungarotoxin is soluble in water (1 mg/ml), yielding a clear, colorless solution.

Storage/Stability

Solutions are stable as frozen aliquots for several months.

References

1. Mebs, D., et al., Amino Acid Sequence of Bungarotoxin from the Venom of Bungarus Multicinctus. *Biochem. Biophys. Res. Commun.*, **44(3)**, 711-716 (1971).
2. Schmidt, J., and Raftery, M. A., A Simple Assay for the Study of Solubilized Acetylcholine Receptors. *Anal. Biochem.*, **52(2)**, 349-354 (1973).
3. Utkin, Yu. N., et al., alpha-Bungarotoxin Interacts with the Rat Brain Tachykinin Receptors. *FEBS Lett.*, **255(1)**, 111-115 (1989).

ARO/RXR 10/02

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.