



PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: α -Bungarotoxin (from *Bungarus multicinctus*)

CATALOGUE #: 00010

MOLECULAR INFORMATION: C₃₃₈H₅₂₉N₉₇O₁₀₅S₁₁.
Mwt: 7984.
[11032-79-4].

PROPERTIES:

Color & Form	White power
Purity	Single band by FPLC
Solubility	Soluble in water
Thermostability	Potentially unstable at room temperature, especially when in solution

STORAGE AND HANDLING: Store desiccated at -20 °C

APPLICATION: α -Bungarotoxin is isolated from the venom of the snake *Bungarus multicinctus* and is a potent inhibitor for the nicotinic acetylcholine receptors ($K_d = 1$ nM to 1 pM) of muscle cells at the neuromuscular junctions. The binding to the acetylcholine receptor sites is irreversible, producing neuromuscular blockade and skeletal muscle paralysis. It has become an important tool for the studies of neuromuscular junctions.

Ref: 1) Zhang , et al. *Neuron*, **12**, 167(1994).

TOXICITY: Mouse LD₅₀ = 0.23mg/kg(s.c.)

FIRST AID:	Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.
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