α-Bungarotoxin

A high affinity inhibitor of the nicotinic acetylcholine receptor in the neuromuscular junction. Blocks acetylcholine activity at the postsynaptic membrane.

Product attributes

Toxin	Alpha-bungarotoxin
CAS number	11032-79-4
Molecular weight	7984
For live or fixed cells	For fixed cells, For live/intact cells
Cell permeability	Membrane impermeant
Storage Conditions	Store at -10 to -35 °C, Protect from light

Product Description

A potent neurotoxin that is an inhibitor for the motor endplate acetylcholine receptor (Kd = 1 nM to 1 pM). It binds at the neuromuscular junction with high affinity and is often used to study neuromuscular junctions by blocking cholinergic receptors. Alpha-bungarotoxin may also be used for detection of GABA A receptor subsets in cells (1), or for labeling recombinant proteins that express the alpha-bungarotoxin binding site (BBS) epitope tag (2).

- A polypeptide snake toxin
- Blocks and inhibits cholinergic receptors
- White solid soluble in water

Also see our Fluorescent α-Bungarotoxins and Biotin α-Bungarotoxin which can can be used for labeling of nicotinic acetylcholine receptors at neuromuscular junctions in tissue sections. See our complete selection of α-Bungarotoxins below.

α-Bungarotoxin, CF® Dye and Other Conjugates

Conjugation	Ex/Em	Size	Catalog No.	Dye Features
Unconjugated	N/A	1 mg	00010-1	
Biotin-XX	N/A	0.5 mg	00017	
CF®405S	411/431 nm	100 ug	00002-100ug	CF®405S Features
0.5 mg	00002			
CF®488A	490/516 nm	100 ug	00005-100ug	CF®488A Features
0.5 mg	00005			
CF®543	543/563 nm	100 ug	00026-100ug	CF®543 Features
0.5 mg	00026			
CF®555	554/568 nm	100 ug	00018-100ug	CF®555 Features
0.5 mg	00018			
CF®568	562/584 nm	100 ug	00006-100ug	CF®568 Features
0.5 mg	00006			
CF®594	593/615 nm	100 ug	00007-100ug	CF®594 Features
0.5 mg	00007			
CF®633	629/650 nm	100 ug	00009-100ug	CF®633 Features
0.5 mg	00009			
CF®640R	642/663 nm	100 ug	00004-100ug	CF®640R Features
0.5 mg	00004			
CF®680R	680/701 nm	100 ug	00003-100ug	CF®680R Features
0.5 mg	00003			
Fluorescein (FITC)	498/517 nm	0.5 mg	00011	
10 x 50 ug	00013			
Tetramethylrhodamine (TRITC)	552/578 nm	0.5 mg	00012	
10 x 50 ug	00014			
Sulforhodamine-101 (Texas Red®)	595/613 nm	0.5 mg	00015	
10 x 50 ug	00016			

References

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