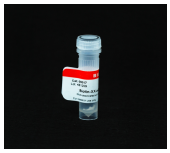
Biotin-XX-α-Bungarotoxin



A high affinity inhibitor of the nicotinic acetylcholine receptor in the neuromuscular junction. Blocks acetylcholine activity at the postsynaptic membrane. The biotin conjugate can be subsequently labeled with anti-biotin antibodies, avidin, or streptavidin for signal amplification.

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. The toxin also blocks α7 receptors, located in the central and peripheral nervous systems. The biotin conjugate can be subsequently labeled with anti-biotin antibodies, avidin, or streptavidin for signal amplification.

- A polypeptide snake toxin
- Blocks and inhibits cholinergic receptors
- Biotinylated for avidin or streptavidin reactivity and signal amplification
- White solid soluble in water

Biotinylated α-bungarotoxin is useful in the affinity column isolation of the nicotinic AChR using an avidin or streptavidin agarose (1). Nicotinic AChR labeled with biotin-XX-α-bungarotoxin can be localized using enzyme or fluorophore-labeled conjugates of avidin or streptavidin (2,3). Alpha-bungarotoxin may also be used for detection of GABA A receptor subsets in cells (4), or for labeling recombinant proteins that express the alpha-bungarotoxin binding site (BBS) epitope tag (5).

We also offer unlabeled α-bungarotoxin and CF® Dye α-Bungarotoxin conjugated to our next-generation fluorescent dyes. See our complete selection of α-Bungarotoxin Products below.

Product attributes

Toxin	Alpha-bungarotoxin
For live or fixed cells	For fixed cells, For live/intact cells
Assay type/options	Tissue staining
Cell permeability	Membrane impermeant
Detection method/readout	Microscopy
Fixation options	Fix before staining (formaldehyde), Fix before staining (methanol), Permeabilize before staining
Conjugation	Biotin
Storage Conditions	Store at -10 to -35 °C, Protect from light

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			

CF is a registered trademark of Biotium, Inc. Texas Red is a registered trademark of Thermo Fisher Scientific.

References

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