



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Product Information

## $\alpha$ -Bungarotoxin, CF™ Dye Conjugate

### Catalog Number:

Cat. No.	Conjugate	Abs (nm)	Em (nm)
00002	CF™405S	404	431
00005	CF™488A	490	515
00026	CF™543	541	560
00018	CF™555	555	565
00006	CF™568	562	583
00007	CF™594	593	614
00009	CF™633	630	650
00004	CF™640R	642	662
00003	CF™680R	680	701

**Unit Size:** 0.5 mg

### Storage and Handling

Store at -20 °C and protect from light, especially when in solution. Product is stable for at least 1 year from date of receipt when stored as recommended. Stock solutions can be prepared in PBS at 0.5 mg/mL and stored at 4°C for at least 6 months, or in single use aliquots at -20°C for longer term storage. Avoid multiple freeze-thaw cycles.

### Spectral Properties

See table above.

### Product Description

$\alpha$ -Bungarotoxin is a polypeptide snake toxin that binds to the nicotinic acetylcholine receptor found at the neuromuscular junction with high affinity. Fluorescent conjugates of  $\alpha$ -bungarotoxin can be used for fluorescence imaging of nicotinic acetylcholine receptors at neuromuscular junctions. CF™ dyes are superior dyes with exceptional brightness and remarkable photostability.

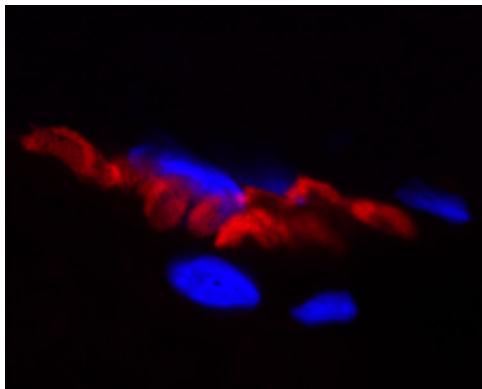


Figure 1. Fresh frozen section of rat skeletal muscle stained with CF™594  $\alpha$ -bungarotoxin (red). Nuclei are counterstained blue with DAPI.

### Staining Protocol

The following is an example protocol for staining 10  $\mu$ m-thick fresh-frozen cryosections of rat skeletal muscle with fluorescent  $\alpha$ -bungarotoxin conjugates, and may require optimization for other applications. For combined immunofluorescence and  $\alpha$ -bungarotoxin staining,  $\alpha$ -bungarotoxin conjugates can be incubated together with fluorescently labeled secondary antibodies.

1. Fix fresh-frozen sections in 4% paraformaldehyde in PBS for 15 minutes at room temperature. Alternatively, sections can be fixed in ice-cold methanol for 5 minutes at -20 °C. Rinse 3X with PBS.
2. Permeabilize sections with PBS/0.1% Triton X-100 for 10 minutes at room temperature. Permeabilization is not required for methanol-fixed sections.
3. Prepare staining solution of 1  $\mu$ g/mL  $\alpha$ -bungarotoxin in PBS. The conjugate can also be diluted in an immunofluorescence blocking buffer.
4. Overlay sections with enough staining solution to completely cover the tissue. A Parafilm® coverslip can be placed on top of the staining solution to evenly spread the solution over the section.
5. Incubate in a dark, humid chamber for at least 15 minutes at room temperature.
6. Rinse several times in PBS.
7. Mount in fluorescence antifade mounting medium and coverslip.

### Related Products

Catalog #	Product Name	Unit Size
40061-T	RedDot™2 Far Red Nuclear Counterstain, 200X in DMSO, Trial Size	25 $\mu$ L (15-20 tests)
23001	EverBrite™ Mounting Medium	10 mL
23002	EverBrite™ Mounting Medium with DAPI	10 mL
23003	EverBrite™ Hardset Mounting Medium	10 mL
23004	EverBrite™ Hardset Mounting Medium with DAPI	10 mL
23005	CoverGrip™ Coverslip Sealant	15 mL
22005	Mini Super <sup>HT</sup> Pap Pen 2.5 mm tip, ~400 uses	1 pen
22006	Super <sup>HT</sup> Pap Pen 4 mm tip, ~800 uses	1 pen
22015	Fixation Buffer	100 mL
22016	Permeabilization Buffer	100 mL
22017	Permeabilization and Blocking Buffer	100 mL
22010	10% Fish Gelatin Blocking Buffer	100 mL
22011	Fish Gelatin Powder	2 x 50 g
22013	Bovine Serum Albumin, Fraction V	50 g
22014	30% Bovine Serum Albumin Solution	100 mL
22002	Tween®-20	50 mL

Please visit [www.biotium.com](http://www.biotium.com) to view our full selection of products featuring bright and photostable fluorescent CF™ dyes, including secondary antibodies, phalloidins and other conjugates, Mix-n-Stain™ antibody labeling kits, and many more innovative fluorescent dyes and assays for life science research.

Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use.

CF dye technology is covered by pending US and international patents. TWEEN is a registered trademark of Uniqema Americas LLC. Parafilm is a registered trademark of Bemis Company Inc.