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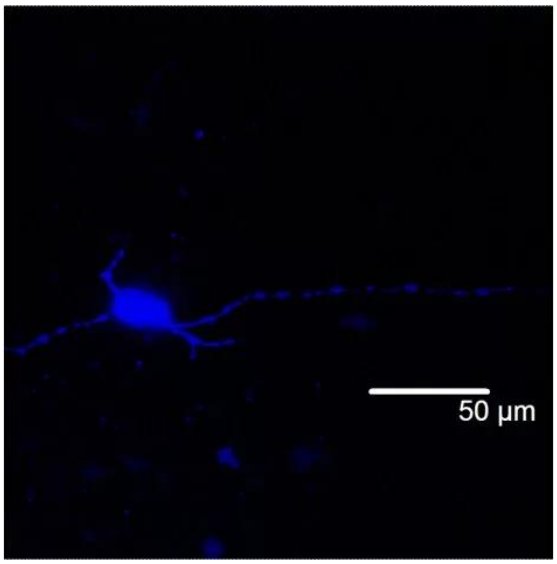
NEUROBIOTIN® 350 TRACER

SKU: SP-1155-2



DESCRIPTION

NEUROBIOTIN 350 Tracer is a tri-functional molecule designed for neuronal tracing and cell filling.

Features:

• Bright blue fluorophore, similar in fluorescence to AMCA or Alexa Fluor® 350
• Biotin label with a biotinidase-resistant linkage
• Fixable primary amine
• Used for visualizing neural architecture and for the identification of gap junction coupling
• Can be used in many types of preparations including in vivo, whole mounts, slice preparations, or cultured cells
• Can be delivered by many routes such as intracellular electrodes, microinjection, cut-loading, or scrape-loading
• Biotin label can be detected using avidin or streptavidin systems with either chromogenic or fluorescence visualization methods

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Advantages of NEUROBIOTIN Tracer over biocytin and other neuronal labels:

- Better solubility
- More efficiently iontophoresed
- Remains in cell longer
- Non-toxic
- Can be fixed with formalin or glutaraldehyde

SPECIFICATIONS

Molecular Weight	573 g/mol
Detection Method	Avidin(Streptavidin)/Biotin Method, Chromogenic, Fluorescence
Maximum Emission	452 nm
Maximum Excitation	346 nm
Unit Size	2 mg
Storage Instructions	2-8 °C (desiccated). Once in solution, store frozen. This product does not contain an antimicrobial agent.
Usage Summary	NEUROBIOTIN 350 is soluble at >5% in the following: water, 1M potassium acetate, 1 M KCl, 1 M NaCl, 1 M Tris, pH 8.5, and 100 mM Tris, pH 7.5.Solubility in phosphate buffers is significantly lower.Solvents and concentrations will require optimization depending on the application.It may be important to note that unbuffered NEUROBIOTIN 350 is somewhat acidic and may require buffering for some applications. NEUROBIOTIN 350 is a tri-functional molecule designed for neuronal tracing and cell filling that contains: •a biotin label with a biotinidase-resistant linker. •a bright fluorophore, similar in fluorescence to AMCA or Alexa Fluor® 350. •a fixable primary amino group. Fixable with formaldehyde or glutaraldehyde
Neuronal Tracer - Direction of Transport	Anterograde/Retrograde

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TECHNICAL INFORMATION

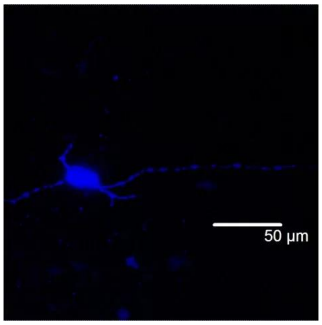
Similar in structure to NEUROBIOTIN 488, NEUROBIOTIN 350 is also an amine containing biotin derivative. However, it is conjugated with a bright blue fluorophore that would contrast with other green or red fluorescent markers or reagents present in the same preparation. For administration purposes NEUROBIOTIN 350 has a net positive charge and is highly soluble in a number of commonly used buffer and salt solutions.

CITATIONS

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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