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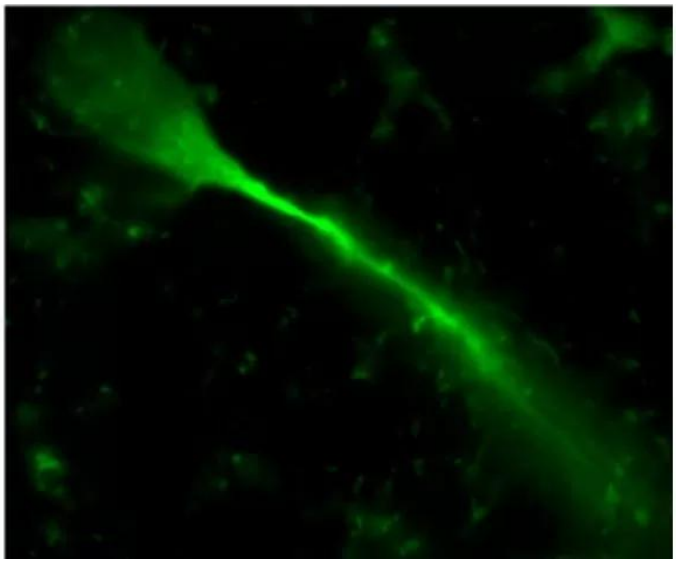
# NEUROBIOTIN®-PLUS TRACER

**SKU:** SP-1150-5



## DESCRIPTION

NEUROBIOTIN-Plus Tracer is a biotin label that is impervious to cleavage and breakdown by biotinidase. It is used for visualizing neural architecture and for the identification of gap junction coupling

**Features:**

• Fixable primary amine
• 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

Advantages of NEUROBIOTIN Tracer over biocytin and other neuronal labels:

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

# SPECIFICATIONS

| | |
|---|---|
| **Molecular Weight** | 358 g/mol |
| **Detection Method** | Avidin(Streptavidin)/Biotin Method, Chromogenic, Fluorescence |
| **Formulation** | 10% solutions can be made in water, buffers, 1 M KCl, 1 M NaCl, or dimethylsulfoxide. |
| **Unit Size** | 5 mg |
| **Storage Instructions** | 2-8 °C (desiccated). Once in solution, store frozen. This product does not contain an antimicrobial agent. |
| **Usage Summary** | Fixable with formaldehyde or glutaraldehyde |
| **Neuronal Tracer - Direction of Transport** | Anterograde/Retrograde |

# TECHNICAL INFORMATION

Investigators have identified rapid degradation of injected tracers such as biocytin due to the presence of biotinidase activity in brain tissue*. This loss of stability of the tracer significantly reduces the viable postinjection period and may compromise complete detection of a neural network. NEUROBIOTIN-Plus was designed to be impervious to cleavage and breakdown by biotinidase. This newly synthesized biotin-containing compound contains fixable amine groups, is highly soluble and has a low molecular weight. These characteristics make it an ideal candidate for experiments requiring long postinjection survival times and optimal uptake along the entire neural tract.

NEUROBIOTIN-Plus shares the same key advantages of NEUROBIOTIN Tracer over biocytin and other neuronal labels:

- Better solubility
- More efficiently iontophoresed

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- Remains in cell longer
- Non-toxic
- Can be fixed with formalin or glutaraldehyde/li>

NEUROBIOTIN-Plus can be detected using avidin or streptavidin systems with either chromogenic or fluorescence visualization methods.

*Mishra, A. et al (2010) ACS Chem. Neurosci. 1:129-138.

## CITATIONS

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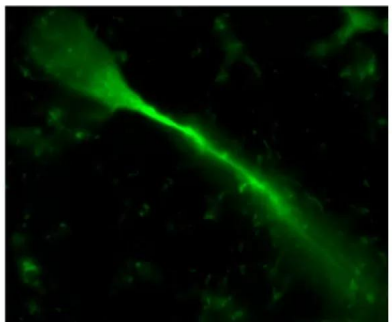
## DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

## GALLERY IMAGES





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