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DATASHEET

TracerBiotin™ (equivalent to Neurobiotin®)

Product overview

Name	TracerBiotin™ (equivalent to Neurobiotin®)
Cat No	HB7672
Biological action	Dyes & stains
Purity	>95%
Description	Neuronal tracer

Biological Data

Biological description	Tracerbiotin™ has the same structure as the widely used neurobiotin®. It is a neuroanatomical tracer which is commonly used to label neurons and acts as a gap junction tracer. Low cytotoxicity and high stability. Suitable for use in vivo, slice preparations, whole mounts and cultured cells and can be delivered by routes such as microinjection, intracellular electrodes, cut and scrape loading. Can be detected using avidin or streptavidin systems, by both chromogenic or fluorescence visualization methods and can be fixed with formalin or glutaraldehyde. Non-toxic, remains in cells longer, is more efficiently iontophoresed and has better solubility than biocytin and other neuronal labels. Neurobiotin® is a trademark of Vector Laboratories

Solubility & Handling

Solubility overview	soluble in water or DMSO
Storage instructions	-20°C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	N-(2-Aminoethyl)biotinamide hydrochloride
Molecular Weight	322.85
CAS Number	111822-45-8
SMILES	Cl.[H][C@]12CS[C@@H](CCCCC(=O)NCCN)[C@@]1([H])NC(=O)N2

References

A biotin-containing compound N-(2-aminoethyl)biotinamide for intracellular labeling and neuronal tracing studies: comparison with biocytin.

Kita H et al (1991) Journal of neuroscience methods 37

PubMedID 1715497