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Datasheet for ABIN7318824
Neurturin Protein (NRTN)

Overview

Quantity:	100 µg
Target:	Neurturin (NRTN)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Neurturin/NRTN Protein
Sequence:	Ala96-Val197
Characteristics:	Recombinant Human Neurturin is produced by our E.coli expression system and the target gene encoding Ala96-Val197 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Neurturin (NRTN)
Alternative Name:	Neurturin/NRTN (NRTN Products)
Background:	Background: Neurturin is a member of the GDNF family of ligands, which include glial cell-derived neurotrophic factor (GDNF), Neurturin, Persephin, and Artemin. Neurturin is expressed in both neuronal and nonneuronal tissues. Similarly to other TGFβ family proteins, Neurturin is synthesized as a precursor protein that is cleaved at the dibasic cleavage site (RXXR) to release

Target Details

the carboxyterminal domain. The carboxy terminal domain of Neurturin contains the characteristic seven conserved cysteine residues necessary for the formation of the cysteine-knot and the single interchain disulfide bond. Biologically active human Neurturin is a disulfide-linked homodimer of the carboxy-terminal 102 amino acid residues. Unlike other members of TGF- β family, bioactivities of all GDNF family ligands are mediated through a unique multicomponent receptor complex composed of high affinity ligand binding component (GFR α -1-GFR α -4) and a common signaling component (cRET receptor tyrosine kinase). Each member of the GDNF family ligands has its preferred binding protein. Neurturin preferentially binds to GFR α -2 but can also bind GFR α -1 at higher concentrations. It may play a role in regulating the development and maintenance of the central and peripheral nervous systems and as well as non neuronal systems.

Synonym: Neurturin, NRTN

Molecular Weight: 11.8 kDa

UniProt: [Q99748](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 10 mM sodium citrate, pH 4.0.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.