

Recombinant Human NRXN3 Protein (Fc Tag)

Catalog Number:PKSH030985



Note: Centrifuge before opening to ensure complete recovery of vial contents.

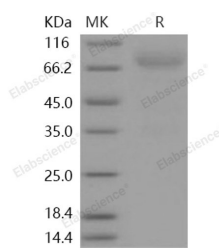
Description

Synonyms	C14orf60
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Thr 357
Accession	NP_620426.2
Calculated Molecular Weight	61.6 kDa
Observed molecular weight	75-85 kDa
Tag	C-hFc
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. When 5×10^4 cells/well are added to NRXN3 coated plates (0.8 $\mu\text{g/ml}$ and 100 $\mu\text{l/well}$), > 30 % will adhere specifically after 60 minutes at 37°C.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Neurexin-3-beta; also known as Neurexin III-beta and NRXN3; is a single-pass type I membrane protein which belongs to the neurexin family. It contains onelaminin G-like domain. It is a neuronal cell surface protein that may be involved in cell recognition and cell adhesion. Neurexins are a family of proteins that function in the vertebrate nervous system as cell adhesion molecules and receptors. They are encoded by several unlinked genes of which two; NRXN1 and NRXN3; are among the largest known human genes. Three of the genes (NRXN1; NRXN2; NRXN3) utilize two alternate promoters

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and include numerous alternatively spliced exons to generate thousands of distinct mRNA transcripts and protein isoforms. The majority of transcripts are produced from the upstream promoter and encode alpha-neurexin isoforms; a much smaller number of transcripts are produced from the downstream promoter and encode beta-neurexin isoforms. The alpha-neurexins contain EGF-like sequences and laminin G domains; and have been shown to interact with neuroligins. The beta-neurexins lack EGF-like sequences and contain fewer laminin G domains than alpha-neurexins. NRXN3 have been linked to genetic predisposition towards a number of conditions such as alcohol or drug addiction; or obesity.

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