Recombinant Human Neuroplastin/NPTN Protein (His Tag)

Catalog Number: PKSH032801

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

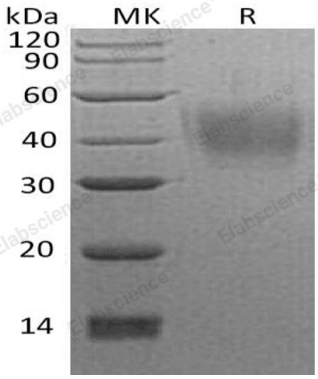
Description

Species	Human
Source	HEK293 Cells-derived Human Neuroplastin;NPTN protein Gln29-His220, with an C-terminal His
Calculated MW	22.7 kDa
Observed MW	35-55 kDa
Accession	Q9Y639
Bio-activity	Not validated for activity

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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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

Neuroplastin (NPTN) is a 52-57 kDa member of the Ig-superfamily. Neuroplastin likely serves as a cell adhesion molecule, and is widely expressed in multiple tissues. Human Neuroplastin is 282 amino acids that contions two Ig-like domains and a 38 aa cytoplasmic region. Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. Neuroplastin may also regulate neurite outgrowth by activating the FGFR1 signaling pathway. It may play a role in synaptic plasticity.

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