

# Recombinant Human Neuroplastin/NPTN Protein (His Tag)



Catalog Number:PKSH032801

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

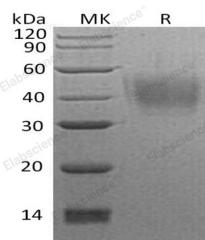
## Description

<b>Synonyms</b>	Neuroplastin;Stromal Cell-Derived Receptor 1;SDR-1;NPTN;SDFR1;SDR1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln29-His220
<b>Accession</b>	Q9Y639
<b>Calculated Molecular Weight</b>	22.7 kDa
<b>Observed molecular weight</b>	35-55 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in 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 contains 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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Fax: 1-832-243-6017