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# Recombinant Human NPTX1 Protein (His Tag)

Catalog Number: PKSH033580

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

#### **Description**

Species Human

Source HEK293 Cells-derived Human NPTX1 protein Gln23-Asn432, with an C-terminal His

Calculated MW 45.9 kDa
Observed MW 50-55 kDa
Accession Q15818

**Bio-activity** Not validated for activity

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per  $\mu$ g 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 a 0.2 μm filtered solution of PBS, 1mM EDTA, pH 7.4.

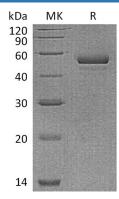
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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

Neuronal Pentraxin (NPTX1, NP1) is a secreted glycoprotein within the Pentraxin family. NPTX1 is co-expressed and forms heteromultimers with the related secreted protein, NPTX2/NARP, NPTXR (Neuronal Pentraxin Receptor) at excitatory synapses. Mature human NPTX1 shares 97% as sequence identity with mouse, and rat NPTX1. It is produced by hippocampal, cerebral and cerebellar neurons, retinal ganglia and the inner nuclear layer of the retina. It is enriched on presynaptic axonal membranes where it forms complexes with NPTXR. It may be involved in mediating uptake of synaptic material during synapse remodeling or in mediating the synaptic clustering of AMPA glutamate receptors at a subset of excitatory synapses.

#### For Research Use Only

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