

Synonym

Neuronal pentraxin II,NP-II

Source

Human NPTX2, His Tag(NP2-H52H6) is expressed from human 293 cells (HEK293). It contains AA Gly 16 - Leu 431 (Accession # P47972).

Molecular Characterization

NPTX2(Gly 16 - Leu 431) P47972

Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 47.7 kDa. The protein migrates as 50-63 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

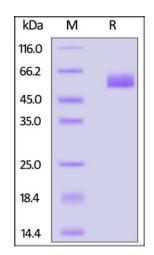
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

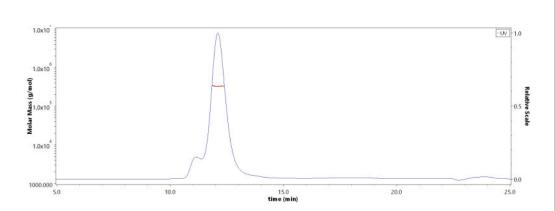
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human NPTX2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human NPTX2, His Tag (Cat. No. NP2-H52H6) is more than 85% and the molecular weight of this protein is around 315-335 kDa verified by SEC-MALS.

<u>Report</u>

Background

Neuronal Pentraxin 2 (NPTX2), also named neuronal activity-reg ulated pentraxin, is a secreted glycoprotein characterized by a cyclic multimeric structure. In vivo, NTPX2 exerts various neurological effects by combining with the transmembrane protein neuronal pen traxin receptor (NPTXR). NPTX2 was thought to play a vital role in transmitting neurotrans mitters and maintaining synaptic plasticity. It also plays a role in clustering of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic

Human NPTX2 Protein, His Tag (MALS verified)





acid (AMPA)-type glutamate receptors at established synapses, resulting in non-apoptotic cell death of dopaminergic nerve cells. Up-regulation of this gene in Parkinson disease (PD) tissues suggests that the protein may be involved in the pathology of PD.

Clinical and Translational Updates

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.