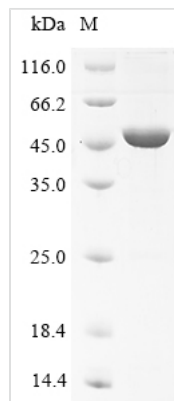




Recombinant Mouse Neuronal pentraxin-1 (Nptx1)

Product Code	CSB-EP714021MO
Abbreviation	Recombinant Mouse Nptx1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q62443
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QDFGPTRFICTSVPVDADMCAASVAAGGAEELRSNVLQLRETVLQQKETILSQ KETIRELTTKLGRCESQSTLDSGPGEARSGGGRKQPGSGKNTMGDLSRTPAA ETLSQLGQTLQSLKTRLENLEQYSRLNSSSQTNSLKDLLQSKIDDLERQVLSRV NTLEEGKGGPKNDTEERAKIESALTS�HQRISELEKGQKDNRPGDKFQLTFPL RTNYMYAKVKKSLPEMYAFTVCMWLKSSAAPGVGTPFSYAVPGQANELVLIE WGNNPMEILINDKVAKLPFVINDGKWHHICVTWTTTRDGVWEAYQDGTQGGN GENLAPYHPIKPQGVVLVGQEQDTLGGGFDATQAFVGELAHFNIWDRKLTPG EVYNLATCSSKALSGNVIWAESQIEIFGGATKWTFEACRQIN
Research Area	Neuroscience
Source	E.coli
Target Names	Nptx1
Expression Region	23-432aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	49.1 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Mouse Nptx1 covers amino acids 23-432. The theoretical molecular weight of the Nptx1 protein is 49.1 kDa. This Nptx1 recombinant protein is manufactured in e.coli. The Nptx1 coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant Nptx1 protein in following stages of expression and purification.

The mouse neuronal Pentraxin-1 (Nptx1) is a member of the pentraxin family of proteins primarily expressed in the central nervous system, particularly in neurons. Nptx1 is involved in synaptic plasticity and is known to play a role in the modulation of excitatory synapses. It interacts with the neuronal pentraxin receptor (NPTXR), influencing the development and maintenance of excitatory synapses. Nptx1 has been implicated in various neurological processes, including learning and memory. Its ability to regulate synaptic function suggests its significance in neuronal communication and network activity. Understanding the functions of Nptx1 can provide insights into the molecular mechanisms underlying synaptic plasticity and contribute to the knowledge of neurodevelopmental and neurodegenerative disorders.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.