

Recombinant human PQBP1 protein

Catalog Number: ATGP1540

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-265aa

UniProt No.

O60828

NCBI Accession No.

NP_005701.1

Alternative Names

Polyglutamine binding protein 1, MRX55, MRXS3, MRXS8, NPW38, RENS1, SHS

PRODUCT SPECIFICATION

Molecular Weight

33 kDa (289aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Polyglutamine binding protein 1, also known as PQBP1, is a transcription repressor that associates with polyglutamine tract-containing transcription regulators and causative genes for neurodegenerative disorders. PQBP-1 localizes to the nucleus and is present in neurons throughout the brain, with abundant levels in hippocampus, cerebellar cortex and olfactory bulb. PQBP-1 contains a WWP/WW domain that binds proline-rich motifs and a C2 domain that can influence Ca²⁺-dependent phospholipid signaling. Recombinant human PQBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MPLPVA LQTRLAKRGI LKHLEPEPEE EIIAEDYDDD PVDYEATRLE
GLPPSWYKVF DPSCGLPYYW NADTDLVSWL SPHDPNSVVT KSAKKLRSSN ADAEEKLDRS HDKSDRGHDK SDRSHEKLDR
GHDKSDRGHD KSDRDRERGY DKVDRERERD RERDRDRGYD KADREEGKER RHHRRREELAP YPKSKKAVSR
KDEELDPMDP SSYS DAPRGT WSTGLPKRNE AKTGADTTAA GPLFQQRYPY SPGAVLRANA EASRTKQQD

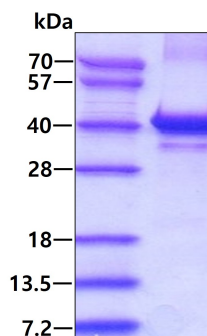
General References

Waragai M., et al. (1999) Hum Mol Genet. 8:977-987.

Waragai M C., et al. (2000) Biochem Biophys Res. 273: 592-595.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.