Recombinant human Pentraxin 3/PTX3 protein

Catalog Number: ATGP0312

PRODUCT INFORMATION

Expression system
E.coli

Domain
18-381aa

UniProt No.
P26022

NCBI Accession No.
NP_002843.1

Alternative Names
TNFAIP5, TSG-14, Pentraxin 3, AI607804, Pentaxin 3, Pentaxin-related protein PTX3, Pentraxin-related gene, rapidly induced by IL-1 beta, Pentraxin-related gene, PTX3, TSG14, Tumor necrosis factor-inducible gene 14 protein, Tumor necrosis factor-inducible protein TSG-14

PRODUCT SPECIFICATION

Molecular Weight
44.4 kDa (401aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

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
Pentraxin 3 (PTX3) is the prototypic member of the long pentraxin family sharing the C-terminal domain with short pentraxins and containing a unique N-terminal domain. Pentraxin 3 is produced and released at inflammatory sites by diverse cell types including monocytes/macrophages, endothelial cells, vascular smooth muscle cells, fibroblasts, and adipocytes. It plays a role in the regulation of innate resistance to pathogens,

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inflammatory reactions, possibly clearance of self-components and female fertility. Recombinant human Pentraxin 3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

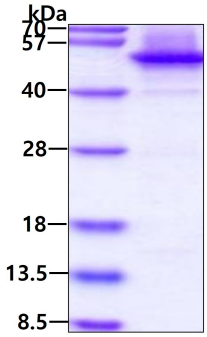
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM>ENS DDYDLMYVNL DNEIDNGLHP TEDPTPCDCG QEHSEWDKLF IMLENSQMRE RMLLQATDDV LRGELQRLRE ELGRLAESLA RPCAPGAPAE ARLTSALDEL LQATRDAGRR LARMEGAEAQ RPEEAGRALA AVLEELRQTR ADLHAVQGWA ARSWLPAGCE TAILFPMRSK KIFGSVHPVR PMRLESFSAC IWVKATDVLN KTILFSYGTK RNPYEIQLYL SYQSIVFVVG GEENKLVAEA MVSLGRWTHL CGTWNSEEGL TSLWVNGELA ATTVEMATGH IVPEGGILQI GQEKNGCCVG GGFDETLAFS GRLTGFNIWD SVLSNEEIRE TGGAESCHIR GNIVGWGVTE IQPHGGAQYV S

General References

Imamura M., et al. (2007). Cell Immunol. 248(2):86-94.
Allens VV., et al. (1994). Blood. 84(10):3483-93.

DATA

SDS-PAGE



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