

Recombinant human Latexin protein

Catalog Number: ATGP0277

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-222aa

UniProt No.

Q9BS40

NCBI Accession No.

NP_064554.2

Alternative Names

LXN, ECI, TCI, MuM, Endogenous carboxypeptidase inhibitor, Latexin, Latexin protein, Tissue carboxypeptidase inhibitor.

PRODUCT SPECIFICATION

Molecular Weight

25.7 kDa (222aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

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

Latexin, a carboxypeptidase A inhibitor, is highly expressed in heart, prostate, ovary, kidney, pancreas, and colon, moderate or low in other tissues including brain. Latexin has no detectable sequence similarity with plant and parasite inhibitors, but it is related to a human putative tumor suppressor protein, TIG1. It is down-regulated

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in the presenilin-1-deficient mouse brain, thus putatively playing a role in Alzheimer's disease. Recombinant human Latexin protein was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MEIPPTNYPA SRAALVAQNY INYQQGTPHR VFEVQKVKQA SMEDIPGRGH KYRLKFAVEE IIQKQVKVNC TAEVLYPSTG
QETAPEVNFT FEGETGKNPD EEDNTFYQRL KSMKEPLEAQ NIPDNFGNVS PEMTLVLHLA WVACGYIIWQ NSTEDTWYKM
VKIQTVKQVQ RNDDFIELDY TILLHNIASQ EIIPWQMQL WHPQYGTKVK HNSRLPKEVQ LE

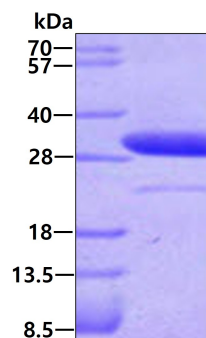
General References

De Haan G., et al. (2007). *Nat Genet.* 39(2):141-2

Aagaard A., et al. (2005). *Structure.* 13(2):309-17

DATA

SDS-PAGE



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