

Recombinant human Parvalbumin alpha/PVALB protein

Catalog Number: ATGP0779

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-110aa

UniProt No.

P20472

NCBI Accession No.

NP_002845

Alternative Names

Parvalbumin alpha

PRODUCT SPECIFICATION

Molecular Weight

14.6 kDa (134aa) 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, 50mM NaCl

Purity

> 95% by SDS-PAGE

Endotoxin level

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

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

Parvalbumin alpha, also known PVALB, belongs to a larger group of EF hand proteins. It is a high affinity calcium ion-binding protein that is structurally and functionally similar to calmodulin and troponin C. Parvalbumin is expressed in a specific population of GABAergic interneurons which are thought to play a role in maintaining the balance between excitation and inhibition in the cortex as well as the hippocampus. Recombinant human

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PVALB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

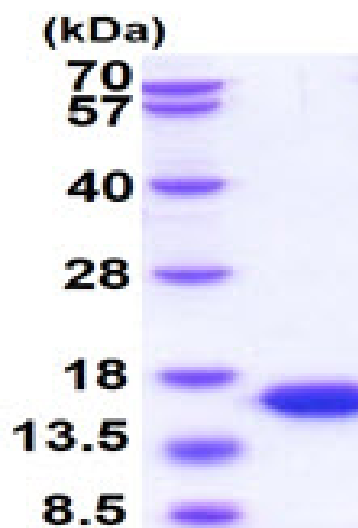
MGSSHHHHHH SSGLVPRGSH MGSMSMTDL LNAEDIKKAV GAFSATDSFD HKKFFQMVGLKKKSADDVKK
VFHMLDKDKS GFIEEDELGF ILKGFSPDAR DLSAKETKML MAAGDKDGDG KIGVDEFSTL VAES

General References

Klausberger T., et al. (2005) J Neurosci. 25(42):9782-93.
Conde F., et al. (1994) J Comp Neurol. 341(1):95-116.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)