

Recombinant Full Length Human PVALB, His-tagged

Cat. No. PVALB-2871H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PVALB protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-110 a.a.
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.
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSMTDL LNAEDIKKAV GAFSATDSFD HKKFFQMVGLKKSADDVKK VFHMLDKDKS GFIEEDELGF ILKGFSPDAR DLSAKETKML MAAGDKDGDG KIGVDEFSTL VAES.
Purity	> 95% by SDS – PAGE.
MW	14.6 kDa (134aa) confirmed by MALDI-TOF.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM

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NaCl, 0.1mM PMSF.

Concentration 1mg/ml (determined by Bradford assay).

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name PVALB parvalbumin [Homo sapiens]

Synonyms PVALB; parvalbumin; OTTHUMP00000197806; OTTHUMP00000197807; OTTHUMP00000197808; parvalbumin alpha

Gene ID 5816

mRNA Refseq NM_002854

Protein Refseq NP_002845

MIM 168890

UniProt ID P20472

Chromosome Location 22q12-q13.1; 22q13

Function calcium ion binding

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