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## Product Data Sheet

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Product Name: PVALB Human  
 Cat. No.: GP24275  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Parvalbumin alpha; PVALB; D22S749; MGC116759.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSMTDL LNAEDIKKAV GAFSATDSFD HKKFFQMVGLKKKSADDVKK VFHMLDKDKS GFIEEDELGF ILKGFSPDAR DLSAKETKML MAAGDKDGDG KIGVDEFSTL VAES.		
Formulation	The PVALB solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.		

### Introduction

Parvalbumin alpha (PVALB) is a member of a larger group of EF hand proteins. PVALB is a high affinity calcium ion-binding protein which is structurally and functionally similar to calmodulin and troponin C. Parvalbumin is expressed in a specific population of GABAergic interneurons which are believed to have a role in maintaining the balance between excitation and inhibition in the cortex as well as the hippocampus.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PVALB Human Recombinant fused with a 24 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids (1-110 a.a.) and having a molecular mass of 14.6kDa. The PVALB is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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