

## PVALB Protein, Human (His)

Cat. No.:	HY-P71129
Synonyms:	Parvalbumin Alpha; PVALB
Species:	Human
Source:	E. coli
Accession:	P20472 (S2-S110)
Gene ID:	5816
Molecular Weight:	Approximately 14.0 kDa

### PROPERTIES

AA Sequence	<p>S M T D L L N A E D    I K K A V G A F S A    T D S F D H K K F F    Q M V G L K K K S A</p> <p>D D V K K V F H M L    D K D K S G F I E E    D E L G F I L K G F    S P D A R D L S A K</p> <p>E T K M L M A A G D    K D G D G K I G V D    E F S T L V A E S</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	In muscle tissue, the PVALB protein, commonly known as parvalbumin, is implicated in the process of relaxation following contraction. Its functional role centers on binding two calcium ions, suggesting a crucial involvement in regulating calcium dynamics within muscle cells. This capacity to sequester calcium underscores parvalbumin's significance in fine-tuning the intricate balance between contraction and relaxation, contributing to the overall control of muscle physiology.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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