



# Recombinant Protein Technical Manual

**Recombinant Human Parvalbumin Alpha/PVALB Protein (His Tag)**  
RPES1277

## Product Data:

**Product SKU:** RPES1277

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P20472

## Protein Information:

**Molecular Mass:** 13.1 kDa

**AP Molecular Mass:** 14 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Parvalbumin Alpha; PVALB

## Immunogen Information:

**Sequence:** Ser2-Ser110

## Background:

Parvalbumin  $\alpha$  (PVALB) is a member of the parvalbumin family. PVALB is a high affinity calcium ion-binding protein, with two EF hand domains. PVALB is structurally and functionally similar to calmodulin and troponin C, it can bind two calcium ions. Parvalbumin is thought to be involved in relaxation after contraction in muscle. 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.