



# Recombinant Protein Technical Manual

## Recombinant Human INPP5A Protein (His Tag)

RPES1763

### Product Data:

**Product SKU:** RPES1763

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q14642

### Protein Information:

**Molecular Mass:** 48.5 kDa

**AP Molecular Mass:** 45 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:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as 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:** Type I inositol 1;4;5-trisphosphate 5-phosphatase; INPP5A

## Immunogen Information:

**Sequence:** Met 1-Val410

## Background:

Type I inositol 1,4,5-trisphosphate 5-phosphatase is a 412 amino acids protein that belongs to the inositol 1,4,5-trisphosphate 5-phosphatase type I family. Type I inositol,4,5-trisphosphate 5-phosphatase is an enzyme that in humans is encoded by the INPP5A gene. It is expressed in brain and high level in Purkinje cells. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P<sub>3</sub>, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation.