



Recombinant Protein Technical Manual
Recombinant Human REG1A/PSPS Protein (His Tag)
RPES5233

Product Data:

Product SKU: RPES5233

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P05451

Protein Information:

Molecular Mass: 17.31 kDa

AP Molecular Mass: 18 kDa

Tag: C-His

Bio-activity:

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

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 7.2.

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

Application:

Synonyms: Lithostathine-Alpha; Islet Cells Regeneration Factor; ICRF; Islet of Langerhans Regenerating Protein; REG; Pancreatic Stone Protein; PSP; Pancreatic Thread Protein; PTP; Regenerating Islet-Derived Protein 1-Alpha; REG-Alpha; Regenerating Protein I Alpha; REG1A; PSPS; PSPS1; REG

Immunogen Information:

Sequence: Gln23-Asn166

Background:

Regenerating Islet-Derived Protein 1- α (REG1A) belongs to the Reg family of secreted proteins with a C-type lectin domain. REG1A is highly expressed levels in fetal and infant brains, much lower in adult brains. REG1A promotes the maintenance and growth of pancreatic islet cells and intestinal villi. In addition to, REG1A might act as an inhibitor of spontaneous calcium carbonate precipitation and be associated with neuronal sprouting in brain, and with brain and pancreas regeneration.