

**DESCRIPTION**

**Source** *E. coli*-derived  
Gln23-Asn166, with an N-terminal Met  
Accession # P48304

**N-terminal Sequence Analysis** Met

**Predicted Molecular Mass** 16 kDa

**SPECIFICATIONS**

**SDS-PAGE** 16 kDa, reducing conditions

**Activity** Measured in a cell proliferation assay using RT4-D6P2T rat schwannoma cells.  
The ED<sub>50</sub> for this effect is 0.15-0.75 µg/mL.

**Endotoxin Level** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE with silver staining.

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

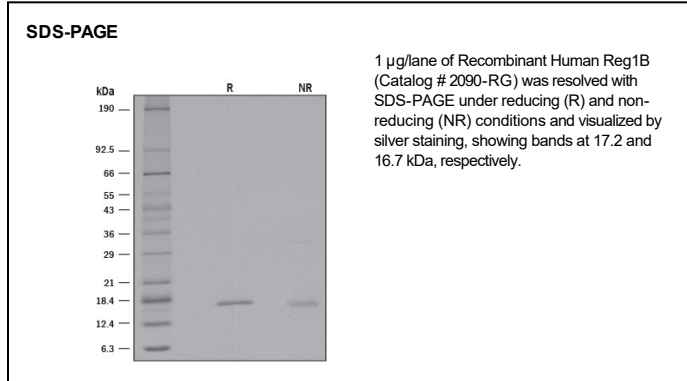
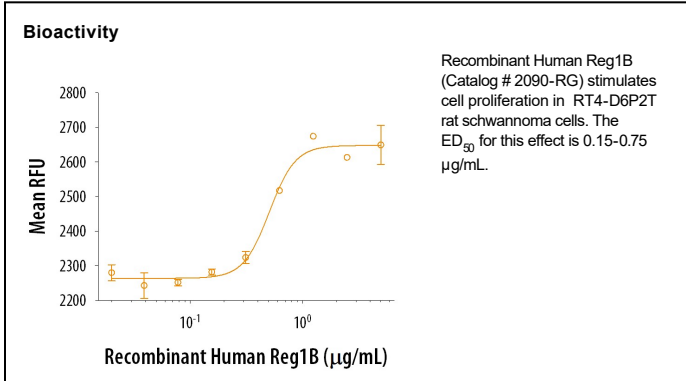
**Reconstitution** Reconstitute at 500 µg/mL in PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**DATA**



**BACKGROUND**

Reg1B also called Lithostatine-1-β or Pancreatic stone protein 2 (PSP2) is a type I subclass member of the Reg gene family. The Reg multigene family consists of four subclasses, types I, II, III and IV based on the primary structures of the encoded proteins of the genes. Reg1B is also a member of the Reg family of secreted C-type lectin domain-containing pancreatic proteins (1, 2). The human Reg1B cDNA encodes 166 amino acids protein which contains a 22 aa signal peptide and the 144 aa secreted mature protein. Reg1B shares 86% amino acid sequence identity with Reg1A and like Reg1A is secreted by the exocrine pancreas and associated with islet cell regeneration and diabetogenesis. Reg family proteins were also shown to cause Schwann cell proliferation during regeneration of motor neurons (3).

**References:**

1. Liu, J.-L. *et al.* (2008) *Endocrine Metab. Immune Disord. Drug Targets* **8**:1.
2. Unno, M. *et al.* (1993) *J. Biol. Chem.* **268**:15974.
3. Livesey F.J. *et al.* (1990) *Nature*. **390**:614.