



# Recombinant Protein Technical Manual

## Recombinant Mouse FSTL1 Protein (His Tag)

RPES0791

### Product Data:

**Product SKU:** RPES0791

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q62356

### Protein Information:

**Molecular Mass:** 33.5 kDa

**AP Molecular Mass:** 45-58 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by 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 PBS, pH7.4.

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

**Application:**

**Synonyms:** Follistatin-related protein 1; Follistatin-like protein 1; TGF-beta-inducible protein TSC-36; Fstl1

## Immunogen Information:

**Sequence:** Glu19-Ile306

## Background:

Follistatin-like 1 (FSTL1) is a secreted glycoprotein that has been grouped into the follistatin family of proteins. FSTL1 is composed of a follistatin domain and two non-functional calcium-binding motifs. It was originally cloned as a TGF $\beta$ 1 inducible factor but subsequently shown to regulate diverse developmental pathways and tissue homeostasis. Ablation of the FSTL1 gene in the mouse results in several structural developmental defects and neonatal lethality due to respiratory failure. FSTL1 suppresses BMP signaling, but the precise mechanism of its action has not been elucidated. FSTL1 is expressed in the human placenta, mainly in extravillous trophoblasts.