



Recombinant Protein Technical Manual

**Recombinant Mouse YM1/ECF-L/Chil3 Protein
(Pro105Ser)(His Tag)
RPES1950**

Product Data:

Product SKU: RPES1950

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: O35744

Protein Information:

Molecular Mass: 43.4 kDa

AP Molecular Mass: 42-50 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 PBS, pH7.4.

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

Application:

Synonyms: CHI3L3; Chitinase-like protein 3; Chil3;Ym1

Immunogen Information:

Sequence: Tyr22-Tyr398(Pro105Ser)

Background:

Chitinase 3-like 3 gene, also known as YM1 and ECF-L, encodes a precursor protein with 398 amino acid residues with a 21 residue signal sequence. Chitinase 3-like 3 protein is a lectin that binds saccharides with a free amino group, such as glucosamine or galactosamine. Binding to oligomeric saccharides is much stronger than binding to mono- or disaccharides. Also binds heparin and G1cN oligomers, and is produced primarily by macrophages during inflammation. It has chemotactic activity for T-lymphocytes, bone marrow cells and eosinophils.