Recombinant Protein Technical Manual

Recombinant Mouse CCL9/MIP-γ Protein

RPES5207

Product Data:

Product SKU: RPES5207

Size: 10µg

Species: Mouse

Expression host: E. coli

Uniprot: P51670

Protein Information:

Molecular Mass: 11.6 kDa

AP Molecular Mass: 15 kDa

Tag:

Bio-activity:

Purity: > 90 % 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 TrisHCl, 300mM NaCl,pH8.0.

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

Application:

Synonyms: C-C motif chemokine 9; CCF18; Macrophage inflammatory protein 1-gamma; Macrophage inflammatory protein-related protein 2; Small-inducible cytokine A9; Scya10;Scya9 and CCL9.

Immunogen Information:

Sequence: Gln22-Gln122

Background:

C-C motif chemokine 9(CCL9) is an 11 kDa, secreted, monomeric polypeptide that belongs to the beta (or CC) intercrine family of chemokines. It is expressed mainly in the liver, lung, and the thymus, although some expression has been detected in a wide variety of tissues except brain. Monokine has inflammatory, pyrogenic and chemokinetic properties. It circulates at high concentrations in the blood of healthy animals. Binding to a high-affinity receptor , it activates calcium release in neutrophils. It also inhibits colony formation of bone marrow myeloid immature progenitors. CCL9 can activate osteoclasts through its receptor CCR1 (the most abundant chemokine receptor found on osteoclasts) suggesting an important role for CCL9 in bone resorption.