



Recombinant Protein Technical Manual

Recombinant Mouse IL beta/IL1B Protein (Active)

RPES4658

Product Data:

Product SKU: RPES4658

Size: 20µg

Species: Mouse

Expression host: E. coli

Uniprot: P10749

Protein Information:

Molecular Mass: 17.5 kDa

AP Molecular Mass: 19 kDa

Tag:

Bio-activity: 1. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is typically 6-30 ng/mL. .2. Measured by its ability to bind human IL1R1 in a functional ELISA.3. Measured by its ability

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

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 sterile PBS, pH 7.4

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

Application: Functional ELISA

Synonyms: Ilb;ILbeta

Immunogen Information:

Sequence: Val 118-Ser 269

Background:

Interleukin beta (IL1 beta or IL1B) also known as catabolin, is a member of the interleukin 1 cytokine family. IL1 is a pleiotropic cytokine. It is involved in the inflammatory response, cell growth, and tissue repair in the cortex. The IL1 superfamily consists of three members, IL1A (IL1 alpha), IL1B (IL1 beta), and IL1 receptor antagonist (IL1Ra). In clinical, it has been reported that Interleukin (IL) may influence Th1 / Th2 immune responsiveness and has been implicated in the establishment of successful pregnancy. Proinflammatory interleukin (IL) gene polymorphisms associated with high levels of ILbeta activity increase the risk for hypochlorhydria and distal gastric carcinoma. IL1B polymorphisms may be involved in susceptibility to SSc. Moreover, the IL2-384-G allele may be a marker for the limited phenotype of systemic sclerosis (SSc).