

Recombinant Mouse Interleukin 18 Binding Protein

Cat. No. IL18bp-1762M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Mouse

Source Mammalian Cells

Description

Mouse IL-18BP is a circulating glycoprotein, which functions as an IL-18 antagonist by binding to IL-18 with high affinity and neutralizing its biological activity. IL-18BP has no amino acid sequence homology to IL-18 or IL-1 receptors. The gene for human IL-18BP encodes at least four isoforms by alternative splicing. The IL-18BP isoforms A and C each contain one immunoglobulin (Ig)-like C2-type domain while isoforms B and D lack the complete Ig domain. The complete Ig domain has been shown to be essential for IL-18BPs binding and neutralizing properties. Several poxviruses have been shown to encode proteins with sequence similarity to human and mouse IL-18BPs that also bind and inhibit IL-18 bioactivities. This could lead to viral modulation of host immune responses.

Molecular Weight

The predicted molecular weight of Recombinant Mouse IL-18 BPd is Mr 44.5 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60-70 kDa.

State Of Matter

Lyophilized.

Purity

>90% by SDS Page and analyzed by silver stain.

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Endotoxin <1.0 EU/g as determined by the LAL method.

Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name IL18bp interleukin 18 binding protein [*Mus musculus*]

Synonyms

Il18bp; interleukin 18 binding protein; IL-18BP; Igfbp; MC54L; interferon gamma inducing factor binding protein; IL18BPα; OTTHUMP00000179141; OTTHUMP00000179143; Tadekinig-alfa; tadekinig-alfa; MC51L-53L-54L homolog gene product; interleukin18 binding protein

Gene ID 16068

mRNA Refseq NM_010531

Protein Refseq NP_034661

UniProt ID Q9Z0M9

Chromosome Location 7 F1

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