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Datasheet for ABIN7520168 IL-18 Protein (His tag)

Overview

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| Quantity: | 10 µg |
| Target: | IL-18 (IL18) |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This IL-18 protein is labelled with His tag. |

Product Details

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| Purpose: | Recombinant Mouse IL-18 Protein |
| Sequence: | NFGRLHCTTA VIRNINDQVL FVDKRQPVFE DMTDIDQSAS EPQTRLIYM YKDSEVRGLA VTLSVKDSKM STLSCKNKII SFEEMDPPEN IDDIQSDLIF FQKRVPGHNK MEFESSLYEG HFLACQKEDD AFKLILKKKD ENGDKSVMFT LTNLHQS |
| Specificity: | Asn36-Ser192 |
| Purity: | > 98 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | <0.1EU/µg |
| Biological Activity Comment: | Measured by its ability to inhibit IFN gamma secretion in KG-1 cells. The ED ₅₀ for this effect is < 0.5 µg/mL. |

Target Details

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| Target: | IL-18 (IL18) |
| Alternative Name: | IL-18 (IL18 Products) |
| Background: | <p>Description: Interleukin-18 (L-18) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12 it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon-γ (IFN-γ) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.</p> <p>Name: Ig, IL-, Igif, IL-18,IL18</p> |
| Gene ID: | 16173 |
| UniProt: | P70380 |
| Pathways: | Cellular Response to Molecule of Bacterial Origin , Activated T Cell Proliferation , Cancer Immune Checkpoints , Inflammasome |

Application Details

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| Restrictions: | For Research Use only |
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Handling

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| Format: | Lyophilized |
| Reconstitution: | Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Concentration: | 0.3 mg/mL |
| Buffer: | Lyophilized from a 0.22 μ m filtered solution of PBS, pH 8.0. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. |