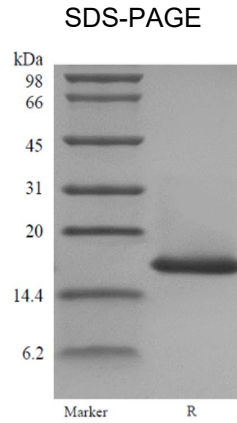


IL18

Recombinant Human Interleukin-18

| | | | |
|---------------------------------|--|------------------|---------------------------|
| Catalog No. | CRI166A CRI166B CRI166C | Quantity: | 10 µg 100 µg 500 µg |
| Alternate Names: | Interleukin-18, IL-18, Interferon gamma-inducing factor, IGIF, Interleukin-1 gamma | | |
| Description: | Human Interleukin-18 is a proinflammatory cytokine in the IL-1 family that exerts distinct immune effects depending on the local cytokine environment. It is expressed as a 24 kDa precursor by endothelial and epithelial cells, keratinocytes, gamma δ T cells, and phagocytes. The precursor is activated intracellularly by Caspase-1 mediated proteolysis to release the 17 kDa mature cytokine. The precursor can also be released by necrotic cells for extracellular cleavage by multiple proteases. IL-18 activation is induced by infection or tissue damage and contributes to disease pathology in chronic inflammation. IL-18 binds to the widely expressed IL-18 R alpha which recruits IL-18 R beta to form the signaling receptor complex. Its bioactivity is negatively regulated by interactions with IL-18 binding proteins and virally encoded IL-18BP homologs. | | |
| UniProt ID: | Q14116 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | 18.2 kDa (157 aa) monomer | | |
| Formulation: | Lyophilized from sterile filtered PBS, pH 7.0 | | |
| Purity: | >95% by SDS-PAGE | | |
| Endotoxin Level: | < 0.1 EU/µg as determined by LAL method. | | |
| Biological Activity: | Testing in progress. | | |
| Amino Acid Sequence: | YFGKLESKLS VIRNLNDQVL FIDQGNRPLF EDMTSDSCRD NAPRTIFIIS MYKDSQPRGM AVTISVKCEK ISTLSCENKI ISFKEMNPPD NIKDTKSDII FFQRSVPGHD NKMQFESSY EGYFLACEKE RDLFKLILKK EDELGDRSIM FTVQNE | | |
| Reconstitution: | Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilution should be made in appropriate buffered solutions. | | |
| Storage & Stability: | Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles. | | |





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