

# Recombinant Human Interleukin-18/IL-18 Protein (His Tag)

Catalog No. PKSH032625

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Synonyms Interleukin-18; Iboctadekin; Interferon gamma-inducing factor; IFN-gamma-inducing

factor;Interleukin-1 gamma;IL-1 gamma;GIF;IL-18;IL-1g;IL1F4;MGC12320

Species Human

Expression Host

Sequence
Tyr37-Asp193
Accession
Q14116
Calculated Molecular Weight
Observed molecular weight
Tag

HEK293 Cells
Tyr37-Asp193
Q14116
19.3 kDa
16 kDa
C-His

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 0.01 EU per  $\mu g$  of the protein as determined by the LAL method.

**Storage** Generally, 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 a 0.2 µm filtered solution of 20mM PB 2150mM NaCl 2pH7.4.

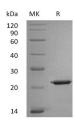
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

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

# Data



> 95 % as determined by reducing SDS-PAGE.

# **Background**

Interleukin-18 is a secreted protein and it belongs to the IL-1 family. IL-18 is a proinflammatory cytokine and produced

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by macrophages and other cells. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 dependent IgE and IgG1 production; and enhance IgG2a production of B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine; and thus negatively regulate its biological activity. After stimulation with IL-18; natural killer (NK) cells and certain T cells release another important cytokine called interferon- $\gamma$  (IFN- $\gamma$ ) or type II interferon that plays an important role in activating the macrophages or

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