

Product Information

Catalog Number	KD-013
Species	Human
Protein Construction	IL-18 (Tyr37-Asp193), Accession # Q14116
Tag	No tag
Expression System	<i>E. coli</i>
Purity	> 95% as determined by SDS-PAGE
Predicted Molecular Mass	18 kDa
SDS-PAGE	17 kDa, under reducing conditions
Endotoxin	<0.1 EU/μg of the protein by the LAL method
Biological Activity	Measured by its ability to induce IFN-γ secretion by KG-1 cells. The ED50 for this effect is <20 ng/mL.
Formulation	Lyophilized from a 0.22μm filtered solution in PBS with 5% Trehalose
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder at 100 μg/mL in sterile deionized water
Storage & Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles 12 months from date of receipt, at lower than -70 °C as supplied 1 week, 2 to 8 °C under sterile conditions after reconstitution 1 month, -20 to -70 °C under sterile conditions after reconstitution
Usage	Research use only

Product Data

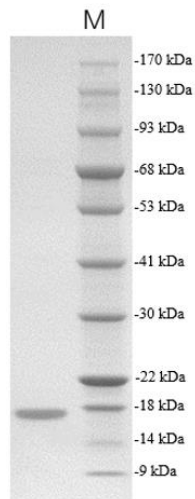


Figure 1. SDS-PAGE analysis with 2 μ g recombinant human IL-18 per lane, under reducing conditions, showing bands at 17 kDa

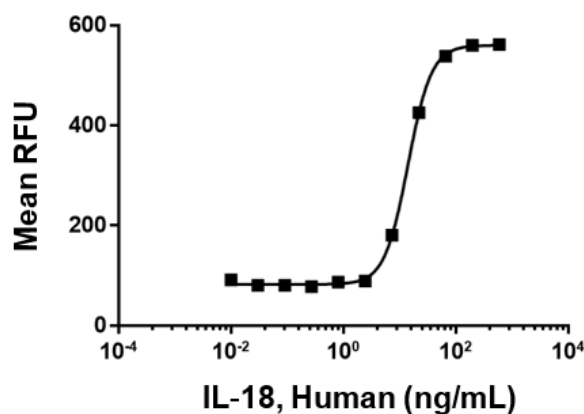


Figure 2. Biological activity measured by its ability to induce IFN- γ secretion by KG-1 cells, ED50 for this effect is <20 ng/mL

Background

Interleukin-18 (IL18, also known as interferon-gamma inducing factor or IGIF) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. Its biological activity is pleiotropic and it has been shown to induce interferon-gamma production in KG-1 cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells.