

Recombinant Human IL-18 Protein

RPCB0147

Description

This high-purity Recombinant Human IL-18 Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0147
Contents:	20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	IL18, IGIF, IL-18, IL-1g, IL1F4
Species:	Human
Gene ID:	3606
Expression Host:	E. coli
Tags:	No tag
Calculated MW:	18.22 kDa
Observed MW:	18 kDa
Purification:	≥ 95 % as determined by SDS-PAGE.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
Bio- Activity:	1. Measured by its binding ability in a functional ELISA. Immobilized recombinant Human IL18 at 5 µg/mL (100µL/well) can bind recombinant Human IL18BPα with a linear range of 0.156-1.372 µg/mL.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

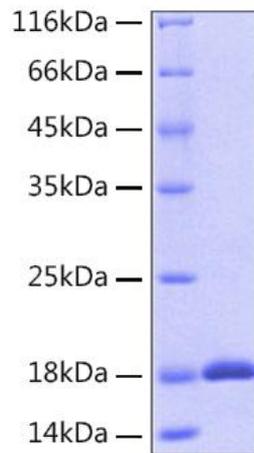
2. Measured by its ability to induce IFN-gamma secretion by KG 1 human acute myelogenous leukemia cells in the presence of TNF-alpha(RPCB0146). The ED 50 for this effect is 1.44-5.76 ng/mL, corresponding to a specific activity of $1.7 \times 10^5 \sim 6.9 \times 10^5$ units/mg.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Store Bradford Reagent at Room Temperature for 1 Year.
- 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.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

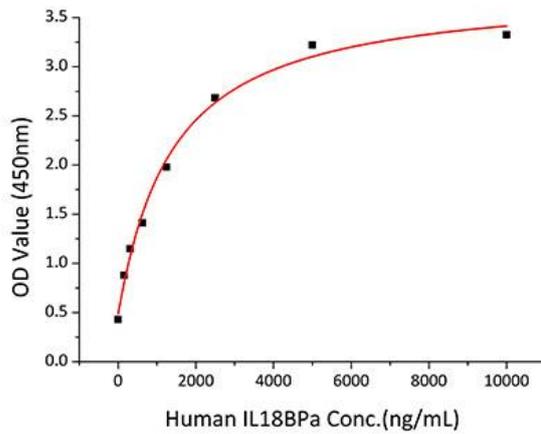
Validation Data

Image



Description

Recombinant Human IL-18 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human IL18 at 5 μ g/mL (100 μ L/well) can bind recombinant Human IL18BP α with a linear range of 0.156-1.372 μ g/mL.