HUMANZYME
HUMAN PROTEINS FROM HUMAN CELLS

PRODUCT DATA SHEET

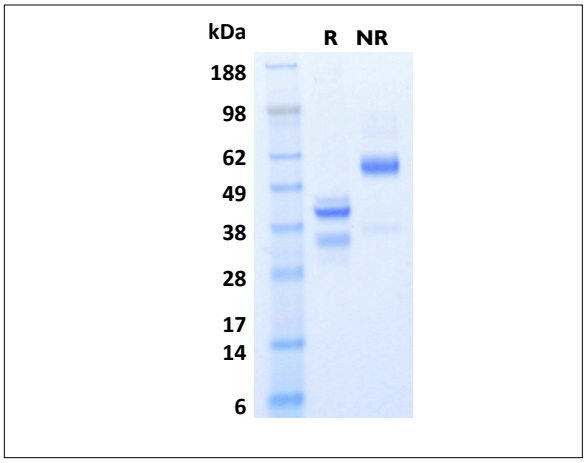
Recombinant Human IL-12 (Interleukin 12)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Lyophilied and Carrier Free (CF)
- Expressed as Disulfide-linked Heterodimer
- Authentic Glycosylation

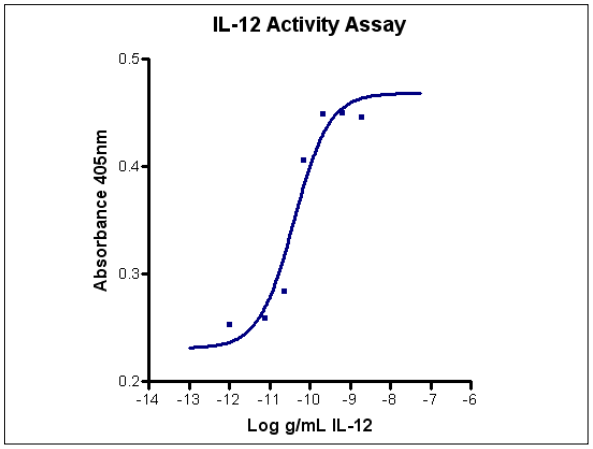
Xeno-free IL-12 is expressed in human 293 cells as a heterodimeric cytokine composed of two glycosylated and disulfide-linked subunits (p40 cysteine-linked to p35). Production in human 293 cells uses a serum-free, chemically defined media and offers authentic glycosylation. IL-12 is a potent regulator of cell mediated immune responses and it induces IFN-gamma production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes, and connective tissue type mast cells.

XENO™ All HumaXpress® HumanKine™ cytokines are animal-component-free and Xeno-free™



Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤2 ng/mL EC_{50}
Purity	>95%
Endotoxin	<1 EU/μg
Molecular Mass	57 kDa, heterodimer, glycosylated
Formulation	1x PBS



Purity Confirmation

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose-dependent release of IFN-gamma from the human NK92 cell line in presence of 20 ng/mL rIL-2.

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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