


CA1067	HumanKine™ IL-12			
	Prod. No. S2325-10UG <i>For Research Use Only</i> <i>Not intended for use in humans or animals</i>	lot #: PR1XXXXXX XXXX	Orders & Support Web	866 372-7442 support@primorigen.com www.primorigen.com

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	57 kDa heterodimer, glycosylated
Activity	Typically 0.1 to 0.5 ng/mL
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human IL-12 expressed in engineered human cells. IL-12 belongs to the IL-6/IL-12 protein family. IL-12 is a 57 kDa heterodimeric glycoprotein; the subunits p35 and p40 are linked with a disulfide bond. The p40 dimer can bind to IL-12 receptor and antagonizes IL-12. Most of cell types express the p35 chain, while the p40 chain is restricted to dendritic cells, B-cells and cells of macrophage /monocytes lineage. IL-12 is produced by macrophages and B-lymphocytes and is induced by both innate and adaptive immune responses. IL-12 may induce T-cell proliferation towards the Th1 phenotype.

Note: Representative data are shown below (not Lot-specific).

Formulation:

Lyophilized in PBS.

Reconstitution:

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

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific 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.

Purity Confirmation:

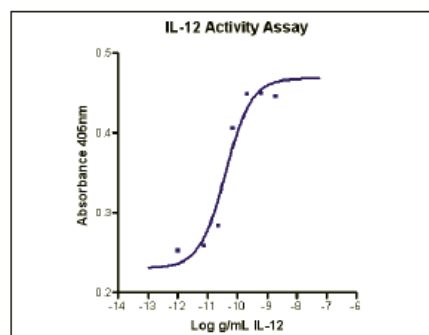
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

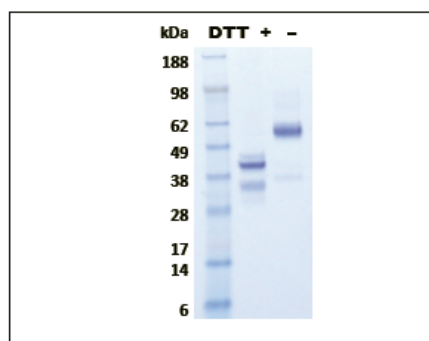
Gately, M. K., et al (1998) Annu. Rev. Immunol. 16, 495-521
Hodge, D. L., et al (2002) Mol. Cell. Biol. 22, 1742-1753.

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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A. Activity Assay



B. SDS-PAGE



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