


CA1070	<b>HumanKine™ IL-23</b>			
	<b>Prod. No. S2328-10UG</b>	<b>lot #: PRXXXXXX XXXX</b>	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

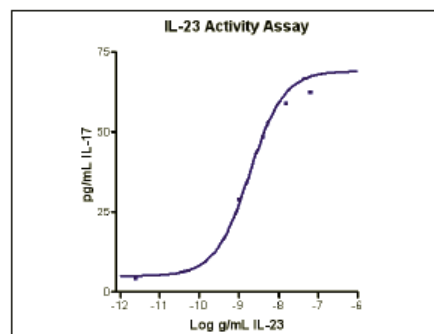
<b>Pack Size</b>	10 µg
<b>Species</b>	Human
<b>Expression System</b>	HEK 293*
	Animal-derived product free
<b>Molecular Mass</b>	25 kDa heterodimer, glycosylated
<b>Activity</b>	Typically 2 to 20 ng/mL ED50
<b>Purity</b>	≥ 95%
<b>Endotoxin</b>	≤ 1 EU/µg

### Background:

Recombinant human IL-23 expressed in engineered human cells. IL-23 is a 55 kDa heterodimeric cytokine composed of two disulfide-linked subunits, a p19 and a p40 subunit and belongs to the IL-6/IL-12 protein family. The biological activity of IL-23 has similarities to IL-12 such as the induction of proliferation IFN-γ, and the effects of IL-23 are restricted to memory T-cells. IL-23 promotes production of pro-inflammatory cytokines and acts in concert with IL-17 to promote an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex and activates the Jak-Stat signaling cascade.

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

### A. Activity Assay



### 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 dose-dependent secretion of IL-17 from mouse splenocytes activated with 10ng/mL PMA.

#### Purity Confirmation:

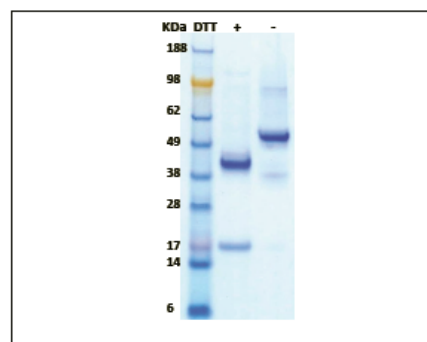
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

#### References:

Aggarwal, S., et al (2003) JBC 278, 1910-1914  
Kastelein, R. A., et al (2007) Annu. Rev. Immunol. 25, 221-242

*\*All HumanKine™ cytokines are expressed in HEK 293 cells.  
HumanKine™ is a trademark of HumanZyme Inc.*

### B. SDS-PAGE



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