



# Certificate of Analysis

## Human IL-23 alpha & Mouse IL-12 beta Heterodimer Protein (HEK293, His)

Cat. No.:	HY-P74874
Batch No.:	278647
Species:	Mouse;Human
Source:	HEK293
Tag:	C-6*His
Accession:	Q9NPF7 (R20-P189)&P43432 (M23-S335)
Gene ID:	51561&16160
Molecular Weight:	Approximately 23.18 & 40-50 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its ability to induce IL-17 secretion by CTLL-2 cells. The ED50 for this effect is 2.703 ng/mL, corresponding to a specific activity is $3.7 \times 10^5$ U/mg.	2.703 ng/mL
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

**Caution: Product has not been fully validated for medical applications. For research use only.**

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