



# Certificate of Analysis

## SDF-1 alpha/CXCL12 Protein, Human

**Cat. No.:** HY-P70469  
**Batch No.:** 353277  
**Species:** Human  
**Source:** *E. coli*  
**Tag:** Tag Free  
**Accession:** P48061 (K22-K89)  
**Gene ID:** 6387  
**Molecular Weight:** Approximately 10.0 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥98.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its ability to chemoattract IL-2-activated human T cells. The ED <sub>50</sub> for this effect is approximately 45.17 ng/mL, corresponding to a specific activity is 2.214×10 <sup>4</sup> U/mg.	PASS
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 (with carrier protein). 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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