



# Certificate of Analysis

## Serpin A3 Protein, Human (K267R, HEK293, His)

Cat. No.:	HY-P71054
Batch No.:	283440
Species:	Human
Source:	HEK293
Tag:	C-6*His
Accession:	P01011 (H24-A423, K267R)
Gene ID:	12
Molecular Weight:	56-80 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	97.00%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its ability to inhibit chymotrypsin cleavage of a fluorogenic peptide substrate MCA-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> . The IC <sub>50</sub> is 15.152 nM, as measured under the described conditions.	PASS
Appearance	Lyophilized powder	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in 20 mM HEPES, 150 mM NaCl, pH 7.4. 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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