

Serpin A4 Protein, Human (HEK293, His)

Cat. No.:	HY-P71143
Synonyms:	Kallistatin; Kallikrein Inhibitor; Peptidase Inhibitor 4; PI-4; Serpin A4; SERPINA4; KST; PI4
Species:	Human
Source:	HEK293
Accession:	P29622 (Q21-P427)
Gene ID:	5267
Molecular Weight:	60-80 kDa

PROPERTIES

AA Sequence

QLHVEHDGES	CNSSSHQQIL	ETGEGSPSLK	IAPANADFAF
RFYYLIASET	PGKNIFFSPL	SISAAYAMLS	LGACSHSRSQ
ILEGLGFNLT	ELSESDVHRG	FQHLLHTLNL	PGHGLET RVG
SALFLSHNLK	FLAKFLNDTM	AVYEAKLFHT	NFYDTVGTIQ
LINDHVKKET	RGKIVDLVSE	LKKDVLMLVL	NYIYFKALWE
KPFISSRTTP	KDFYVDENTT	VRVPMMLQDQ	EHHWYLHdry
LPCSVLRMDY	KGDATVFFIL	PNQGMREIE	EVLTPMLMR
WNNLLRKRNF	YKKLELHLPK	FSISGSYVLD	QILPRLGFTD
LFSKWADLSG	ITKQQKLEAS	KSFHKATLDV	DEAGTEAAAA
TSFAIKFFSA	QTNRHILRFN	RPFLVVI FST	STQSVLFLGK
VVDPTKP			

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 10 mM NaCl, pH 8.0 or 20 mM PB, 6% Trehalose, 4% Mannitol, 50 mM NaCl, 0.05% Tween 80, pH 6.0.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. 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.

DESCRIPTION

Background

Serpin A4 Protein functions as an inhibitor, specifically targeting the amidolytic and kininogenase activities of tissue kallikrein. This inhibitory mechanism involves the formation of an equimolar complex between the inhibitor and the enzyme, which is heat- and SDS-stable. Concurrently, tissue kallikrein cleaves the reactive site of Serpin A4, generating a small C-terminal fragment. The protein exists as a monomer and, in some instances, forms homodimers, showcasing its regulatory role in modulating tissue kallikrein-mediated enzymatic activities.

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

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