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SERPINA4 Human

Kallistatin Human Recombinant
RCP2038

Product Overview

Name	SERPINA4 Human
Description	
Kallistatin Human Recombinant	
Accession (Primary)	P29622
Synonyms	
Serpin Peptidase Inhibitor, Clade A (Alpha-1 Antiproteinase, Antitrypsin) Member 4, PI4, KST, Serine (Or Cysteine) Proteinase Inhibitor, Clade A (Alpha-1 Antiproteinase, Antitrypsin), Member 4, Peptidase Inhibitor 4, Kallikrein Inhibitor, Serpin A4, PI-4, Protease Inhibitor 4 (Kallistatin), Kallistatin, KLST, KAL, SERPINA4.	
Introduction	
Kallistatin (SERPINA4) inhibits human amidolytic and kininogenase activities of tissue kallikrein. This inhibition is attained by formation of an equimolar, heat- and SDS-stable complex between the inhibitor and the enzyme, and production of a small C-terminal fragment of the inhibitor as a result of cleavage at the reactive site by tissue kallikrein.	
Source	
HEK 293.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
SERPINA4 was filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in phosphate buffered saline pH 7.4 and 5% (w/v) Trehalose.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
QLHVEHDGES CSNSSHQQIL ETGEGSPSLK IAPANADFAF RFYYLIASET PGKNIFFSPL SISAAYAMLS LGACSHSRSQ ILEGLGFNLT ELSESDVHRG FQHLLHTLNL PGHGLETRVG SALFLSHNLK FLAKFLNDTM	

AVYEAKLFHT NFYDTVGTIQ LINDHVKKET RGKIVDLVSE LKKDVLMVLV NYIYFKALWE KPFISSRTTP KDFYVDENTT VRVPMMLQDQ EHHWYLHDRY LPCSVLRMDY KGDATVFFIL PNQGKMREIE EVLTPEMLMR WNNLLRKRNF YKKLELHLPK FSISGSYVLD QILPRLGFTD LFSKWADLSG ITKQQKLEAS KSFHKATLDV DEAGTEAAAA TSFAIKFFSA QTNRHILRFN RPFLVVIFST STQSVLFLGK VVDPTKP HHH HHHHHHH .

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. SERPINA4 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

SERPINA4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P29622)