
Product Data Sheet

Product Name: SERPINA4 Human

Cat. No.: GP24533

Batch No.: 1

Product Data

Purity >98%

Source HEK 293.

Physical
Appearance solidShipping
Condition Shipped at Room temp.

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.

Amino Acid
Sequence

QLHVEHDGES CSNSSHQIL ETGEGSPSLK IAPANADFAF RFYYLIASET
PGKNIFFSPL SISAAYAMLS LGACSHRSRQ ILEGLGFNLT ELSESDVHRG
FQHLLHTLNL PGHGLETRVG SALFLSHNLK FLAKFLNDTM AVYEAKLFHT
NFYDTVGTIQ LINDHVKKET RGKIVDLVSE LKKDVLMLV LV NYIYFKALWE
KPFISSRTPP KDFYVDENTT VRVPMMLQDQ EHHWYLH DRY LPCSVLRMDY
KGDATVFFIL PNQGKMREIE EVLTPPELMR WNNLLRKRNF YKKLELHLPK
FSISGSYVLD QILPRLGFTD LFSKWADLSG ITKQKLEAS KSFHKATLDV
DEAGTEAAAA TSFAIKFFSA QTNRHILRFN RPFLVVIFST STQSVLFLGK
VVDPTKPHHH 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.

Formulation SERPINA4 was filtered (0.4µm) and lyophilized from 0.5mg/ml solution in phosphate buffered saline pH 7.4 and 5% (w/v) Trehalose.

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

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

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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.

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 .

Background

SERPINA4 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Gln21-Pro427) containing a total of 417 amino acids, having a calculated molecular mass of 47.7kDa and fused to a 10 aa His tag at C-Terminus.

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