
Product Data Sheet

Product Name: SERPINB2 Human
 Cat. No.: GP24539
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Serin Peptidase Inhibitor Clade B (Ovalbumin) Member 2; Serine (Or Cysteine) Proteinase Inhibitor Clade B (Ovalbumin) Member 2; Placental Plasminogen Activator Inhibitor; Plasminogen Activator Inhibitor Type II (Arginine-Serpin); PAI2; PLANH2; Monocyte Arg-Serpin; Serpin B2; HsT1201; PAI.		
Amino Acid Sequence	MEDLCVANTL FALNLFKHLA KASPTQNLFL SPWSISSTMA MVYMGSRGST EDQMAKVLQF NEVGANAVTP MTPENFTSCG FMQQIQKGSY PDAILQAQAA DKIHSSFRSL SSAINASTGN YLLESVNKLF GEKSASFREE YIRLCQKYYS SEPQAVDFLE CAEEARKKIN SWVKTQTKGK IPNLLPEGSV DGDTRMVLVN AVYFKGKWKT PFEKKLNGLY PFRVNSAQRT PVQMMYLREK LNIGYIEDLK AQILELPYAG DVSMFLLLPD EIADVSTGLE LLESEITYDK LNKWTSKDKM AEDEVEVYIP QFKLEEHYEL RSILRSMGME DAFNKGRANF SGMSEKNDLF LSEVFHQAMV DVNEEGTEAA AGTGGVMTGR TGHGGPQFVA DHPFLFLIMH KITNCILFFG RFSSP		
Solubility	It is recommended to reconstitute the lyophilized SERPINB2 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 20mM Tris-HCl, pH8.0, 150mM NaCl, 1mM Cysteine, with 5% Trehalose.		

Introduction

SERPINB2 is an inhibitory serpin produced primarily in keratinocytes, stimulated monocytes, and placental trophoblasts. SERPINB2 is found primarily as a 47 kDa non-glycosylated intracellular protein that is induced to be secreted as 60 kDa glycoprotein. The glycosylated and unglycosylated SERPINB2 are similarly effective as inhibitors of

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

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uPA, the only proven physiological target of SERPINB2.

Biological Activity

The biologically active was determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37°C . Half maximal inhibition against 1.0 µg/ml of single chain tPA was at a concentration of 1.0µg/ml.

Stability

Lyophilized SERPINB2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution SERPINB2 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

SERPINB2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 415 amino acids and having a molecular mass of 46.6kDa.

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