9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SERPINB2 Human

Serpin Peptidase Inhibitor, Clade B Member 2 Human Recombinant
RCP2044

Product Overview

Name	SERPINB2 Human

Description

Serpin Peptidase Inhibitor, Clade B Member 2 Human Recombinant

Accession (Primary)	P05120

Synonyms

Serpin 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.

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 uPA, the only proven physiological target of SERPINB2.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 μm filtered concentrated solution in 20mM Tris-HCl, pH8.0, 150mM NaCl, 1mM Cysteine, with 5% Trehalose.

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.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

MEDLCVANTL FALNLFKHLA KASPTQNLFL SPWSISSTMA MVYMGSRGST EDQMAKVLQF NEVGANAVTP

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

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 SGMSERNDLF LSEVFHQAMV DVNEEGTEAA AGTGGVMTGR TGHGGPQFVA DHPFLFLIMH KITNCILFFG RFSSP

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 1.0 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized SERPINB2 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

SERPINB2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05120)