

## 32-4813: Recombinant Human Serpin Peptidase Inhibitor, Clade B Member 2

**Alternative Name :** 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), Urokinase Inhibitor

### Description

Source : Escherichia Coli. 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. The SERPINB2 is purified by proprietary chromatographic techniques. 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 urokinase-type plasminogen activator (uPA), the only proven physiological target of SERPINB2.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  
**Content :** Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH8.0, 150mM NaCl, 1mM Cysteine, with 5% Trehalose.  
**Storage condition :** 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.  
**Amino Acid :** MEDLCVANTL FALNLFKHLA KASPTQNLFL SPWSISSTMA MVMGSRGST EDQMAKVLQF NEVGANAVTP MTPENFTSCG FMQIQKGSY PDAILQAQAA DKIHSSFRSL SSAINASTGN YLLESVNLKF GEKSASFREE YIRLCQKYYS SEPQAVDFLE CAEEARKKIN SWVKTQTKGK IPNLLPEGSV DGDTRMVLVN AVYFKGKWKTPFEKKNGLY PFRVNSAQRTPVQMMYLREK LNIGYIEDLK AQILELPYAG DVSMFLLLPD EIADVSTGLE LLESEITYDK LNKWTSKDKM AEDEVEVYIP QFKLEEHYEL RSILRSMGME DAFNKGRANF SGMSEKNDLF LSEVFHQAMV DVNEEGTEAA AGTGGVMTGR TGHGGPQFVA DHPFLFLIMH KITNCILFFG RFSSP

### Application Note

It is recommended to reconstitute the lyophilized SERPINB2 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. 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.

