

## 32-4815: Recombinant Human Serpin Peptidase Inhibitor, Clade B Member 5

**Alternative Name :** P15,maspin,SERPINB5,serpin peptidase inhibitor clade B (ovalbumin) member 5,Serpin B5,Protease inhibitor 5.

### Description

Source : Escherichia Coli. SERPINB5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 375 amino acids and having a molecular mass of 42.2 KDa.The SERPINB5 Human is purified by proprietary chromatographic techniques. SERPINB5 (Maspin) is a tumor suppressor protein of the serine proteinase inhibitor family. Maspin plays a vital role in embryonic development through critical functions in cell adhesion. In addition, Maspin is present in normal breast and prostatic epithelial cells although down regulated in the particular carcinomas. SERPINB5 impedes the growth, invasion, and metastatic properties of mammary tumors as well as the invasive ability of pancreatic ductal adenocarcinoma cells. SERPINB5 being a breast tumor suppressor gene is a significant marker of the disease progression in breast neoplasms. Furthermore, high expression of maspin is linked to squamous cell carcinoma in non-small-cell lung cancer. Moreover, maspin expression has been directly linked with the biological aggressiveness of ovarian carcinoma. Maspin exhibits no serine protease inhibitory activity since it does not undergo the stressed to relaxed conformational transition typical of active serpins.

### Product Info

**Amount :** 20 µg

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

**Content :** Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.0.

**Storage condition :** Lyophilized SERPINB5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SERPINB5 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 :** MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSLA LAQVGAKGDT ANEIGQVLHF ENVKDIPFGF QVTSDVNKL SSFYSLKLIK RLYVDKSLNL STEFISSTKR PYAKELETVD FKDKLEETKG QINNSIKDLT DGHFENILAD NSVNDQTKIL VVNAAYFVGK WMKKFPESET KECPFRLNKT DTKPVQMMNM EATFCMGNID SINCKIIELP FQNKHLSMFI LLPKDVEDES TGLEKIEKQL NSESLSQWTN PSTMANAKVK LSIPKFKVEK MIDPKACLEN LGLKHIFSED TSDFGMSET KGVALSNVIH KVCLEITEDG GDSIEVPGAR ILQHKDELNA DHPFIYIIRH NKTRNIFFG KFCSP.

### Application Note

It is recommended to reconstitute the lyophilized SERPINB5 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

