

## SERPINB5

### Recombinant Human Mammary Serine Protease Inhibitor

<b>Catalog No.</b>	CS287A CS287B CS287C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Alternate Names:</b>	PI5, Maspin, Peptidase inhibitor 5, Serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5, Serpin B5		
<b>Description:</b>	Mammary serine protease inhibitor (Maspin) is a non-inhibitory serpin that is expressed predominantly in normal mammary epithelial cells but at significantly reduced levels or absent in most breast carcinomas. It has the ability to block the growth, invasiveness, and metastatic potential of breast and lung tumors. This anti-tumor activity is achieved, in part, by the ability of Maspin to inhibit angiogenesis and to preferentially promote apoptosis of tumor cells.		
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Gene ID:</b>	5268		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	Approximately 42.2 kDa, a single non-glycosylated polypeptide chain containing 375 amino acid residues.		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	Less than 1 EU/µg of Recombinant Human Maspin as determined by LAL method.		
<b>Biological Activity:</b>	Data is not available.		
<b>Amino Acid Sequence:</b>	MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSLA LAQVGAKGDT ANEIGQVLHF ENVKDIPFGF QVTSDVNKL SSFYSCLKIK RLYVDKSLNL STEFISSTKR PYAKELETVD FKDKLEETKG QINNSIKDLT DGHFENILAD NSVNDQTKIL VVNAAYFVGK WMKKFPESET KECPFRLNKT DTKPVQMMNM EATFCMGNID SINCKIIELP FQNKHLSMFI LLPKDVEDES TGLEKIEKQL NSESLSQWTN PSTMANAKVK LSIPKFKVEK MIDPKACLEN LGLKHIFSED TSDFSGMSET KGVALSNVIH KVCLEITEDG GDSIEVPGAR ILQHKDELNA DHPFIYIIRH NKTRNIIFFG KFCSP		
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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