

Maspin, human recombinant

CATALOG NO:	P1021-10 P1021-25	10 µg 25 µg
ALTERNATE NAMES:	Serpins B5, PI-5	
SOURCE:	<i>E. coli</i>	
PURITY:	> 95% as analyzed by SDS-PAGE.	
MOL. WT.	42.1 kDa, observed by reducing SDS-PAGE.	
ENDOTOXIN LEVEL:	< 0.2 EU/µg, determined by LAL method.	
FORM:	Lyophilized	
FORMULATION:	Lyophilized after extensive dialysis against PBS.	
STORAGE CONDITIONS:	Centrifuge the vial prior to opening. Reconstitute in sterile ddH ₂ O or PBS to a concentration of 100 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.	
RECONSTITUTION:	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.	
DESCRIPTION:	<p>Maspin is a non-inhibitory member of the serpin superfamily, a group of 40-60 kDa serine protease inhibitors. Maspin was discovered in 1994 and has been identified in prostate, thymus, testis, intestine, tongue, and lung. Recently Maspin received a great deal of attention due to its potential apoptotic role in cancers. Maspin expression predicts a better prognosis for several types of carcinomas including breast, prostate, colon, and oral squamous cell carcinoma. The level of Maspin is also inversely correlated to VEGF-A, an angiogenic factor. Researchers found that Maspin may play its apoptotic role as an endogenous inhibitor of histone deacetylase I (HDAC I). Therefore, Maspin is a potential personalized marker of Non-Small Cell Lung Carcinoma (NSCLC). Recombinant human Maspin (rhMaspin) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 375 amino acids.</p>	
AMINO ACID SEQUENCE:	<p>MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSL LAQVGAKGDT ANEIGQVLHF ENVKDIPFGF QTVTSDVNKL 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 NKTRNIIFFG KFCSP</p>	

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