

Overview

Synonyms	Serpin B5, PI-5
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).</p> <p>Recombinant human Maspin (rhMaspin) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 375 amino acids. rhMaspin has a molecular mass of 42.1 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P36952
Species	Human
Source	<i>E. coli</i>
Biological Activity	Data not available.
Sequence	<pre>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 NSELSQWTN PSTMANAKVK LSIPKFKVEK MIDPKACLEN LGLKHIFSED TSDFSGMSET KGVALSNVH KVCLEITEDG GDSIEVPGAR ILQHKDELNA DHPFIYIIRH NKTRNIIFFG KFCSP</pre>

Properties

Measured Molecular Weight	42.1 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Maspin (rhMaspin) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhMaspin remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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