

Serpin B5/Maspin Protein, Human (His)

Cat. No.:	HY-P7385A
Synonyms:	rHuMaspin; Serpin B5; PI-5
Species:	Human
Source:	E. coli
Accession:	P36952-1 (M1-P375)
Gene ID:	5268
Molecular Weight:	approximately 40-45 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS
Endotoxin Level	<1 EU/mL, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Maspin is a unique member of the serpin family that shares extensive homology with monocyte-neutrophil elastase inhibitor, PAI-2 and other serpins. Among the established anti-tumor effects of Maspin are the inhibition of cancer cell invasion, attachment to extracellular matrices, increased sensitivity to apoptosis, and inhibition of angiogenesis. Maspin interacting with diverse group of intercellular and extracellular proteins, regulating cell adhesion, motility, apoptosis, and angiogenesis and critically involved in mammary gland development. Maspin is an endogenous inhibitor of histone deacetylase (HDAC1) and reprograms tumor cells toward better differentiated phenotypes by inhibiting HDAC1. It stimulates an antitumor immune response in prostate tumor cells, leading to tumor elimination in vivo. Maspin may function as a modulator of the immune system in the tumor microenvironment ^{[1][2]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA