



# Recombinant Human Maspin (SerpineB5)

Cat No:HR2R1699

For research use only

## Overview

Quantity	200 ?g
Gene Symbol	SERPINB5
Gene ID	5268
Accession	P36952
Alternative Name	Maspin, Peptidase inhibitor 5
Species	Human
Source	E. coli
Description	Mammary serine protease inhibitor (Maspin) is a non-inhibitory tumor suppressor serpin that is encoded by the SERPINB5 gene. Playing an important role in embryonic development in cell adhesion, Maspin has the ability to suppress the growth, invasion, and metastasis of breast and lung tumors. However, Maspin does not exhibit any serine protease inhibitor activity since it does not undergo the conformational transition from stressed to relaxed found in typical serpins. It is expressed in normal breast and prostatic epithelial cells, but downregulated in most breast carcinoma.
Functions	The ED(50) was determined by the dose-dependent proliferation of MDA-MB-468 cells and was found to be <math><0.05\text{ng/mL}</math>.
Formulation	N/A
Solubility	N/A
Appearance	Lyophilized Powder
Molecular Weight	42.3
Purity	>95% as determined by SDS-PAGE
Concentration	
Shipping Condition	Ambient Temperature
Storage Condition	Store product at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favourable performance, avoid repeated handling and multiple freeze/thaw cycles.