
Product Data Sheet

Product Name: SERPINB5 Human, His
 Cat. No.: GP24543
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PI5; maspin; SERPINB5; serpin peptidase inhibitor clade B (ovalbumin) member 5; Serpin B5; Protease inhibitor 5.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSLA LAQVGAKGDT ANEIGQVLHF ENVKDVPFGF QTVTSDVNKL SSFYSLKLIK RLYVDKSLNL STEFISSTKR PYAKELETVD FKDKLEETKG QINNSIKDLT DGHFENILAD NSVNDQTKILVVNAAYFVGK WMKKFPESET KECPRVVKTK DTKPVQMMNM EATFCMGNID SINCKIMELP FQNKHLMSMFI LLPKDVEDES TGLEKIEKQLNSESLSQWTN PSTMANAKVK LSIPKFKVEK MIDPKACLEN LGLKHIFSED TSDFGMSET KGVALSNVIH KVCLEITEDG GDSIEVPGAR ILQHKDELNA DHPFIYIIRH NKTRNIIFFG KFCSP.		
Formulation	The SERPINB5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.		

Introduction

SERPINB5 (Maspin) is a tumor suppressor protein of the serine proteinase inhibitor family. Maspin plays a vital role in embryonic development through critical functions in cell adhesion. In addition, Maspin is present in normal breast and prostatic epithelial cells although down regulated in the particular carcinomas. SERPINB5 impedes the growth, invasion, and metastatic properties of mammary tumors as well as the invasive ability of pancreatic ductal adenocarcinoma cells. SERPINB5 being a breast tumor suppressor gene is a significant marker of the disease progression in breast neoplasms. Furthermore, high expression of maspin is linked to squamous cell carcinoma in non-small-cell lung cancer. Moreover, maspin expression has been directly linked with the biological aggressiveness of ovarian carcinoma. Maspin exhibits no serine protease inhibitory activity since it does not undergo the stressed to relaxed conformational

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

transition typical of active serpins.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SERPINB5 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 395 amino acids (1-375 a.a.) and having a molecular mass of 44.2 kDa. The SERPINB5 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA