

Maspin, 1-375aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP02914

3th Edition

Synonyms: Serine (or cysteine) proteinase inhibitor clade B (ovalbumin) member 5, Serpin B5, Protease inhibitor 5, SERPINB5. PI5

Description: Serine (or cysteine) proteinase inhibitor clade B (ovalbumin) member 5, also known as Maspin, is a tumor suppressor protein of serine proteinase inhibitor family. It plays an essential role in embryonic development through critical roles in cell adhesion. Also, it is present in normal breast and prostatic epithelial cells but downregulated in the respective carcinomas. Recombinant human Maspin, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Molecular Weight: 44.2 kDa (395aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMDALQLANSFAVDLFLKQLCEKEPLGNVLFSPICLSTSLSLAQVGAKGDTANEIGQ
VLHFENVKDVDPFGFQTVTSDVNKLSSFYSLKLIKRLYVDKSLNLSTEFISSTKRPYAKELETVDFDKLEETKGGQINNS
IKDLTDGHEFENILADNSVNDQTKILVVNAAYFVGKWMKKFPESETKECPFRVNKTDTKPVQMMNMEATFCMGNIDS
INCKIMELPFQNKHLSMFILLPKDVEDESTGLEKIEKQLNSELSQWTNPSTMANAKVKLSIPKFKVEKMIDPKACLE
NLGLKHIFSEDTSDFSGMSETKGVALSNIHVKVCLEITEDGGDSIEVPGARILQHKDELNADHPFIYIIRHNKTRNIIF
GKFCSP

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.