

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Maspin, Human

Catalog Number: BK0124-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

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). Recombinant human Maspin (rhMaspin) produced in E.coli 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 at GenScript.

Molecular Weight:

42.1 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analysis.

Biological Activity:

Data not available.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MDALQLANSFAVDLFLKQLCEKEPLGNVLF-
SPICLSTSLSLAQVGAKGDTANEIGQVLHFEN-
VKDIPFGFQTVTSDVNLKSSFYSLK-
LIKRLYVDKSLNLSTEFISSTKRPYAKE-
LETVDFKDKLEETKGQINNSIKDLT-
DGHFENILADNSVNDQTKILVVNAAY-
FVGKWMKKFPESETKECP-
FRLNKTDTKPVQMMNMEAT-
FCMGNIDSINCKIIELPFQNKHLSMFILL-
PKDVEDESTGLEKIE-
KQLNSELSQWTPNPSTMANAKVKLSIP-
KFKVEKMID-
PKACLENLGLKHIFSEDTSDFSGMSETKGVALS-
NVIHKVCLEITEDGGDSIEVPGARILQHK-
DELNADHPFIYIIRHNKTRNIIFFGKFCSP

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μg/mL.

Storage:

Lyophilized recombinant human Maspin (rhMaspin) remains stable up to 6 months at -80 °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.

Usage:

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