

Recombinant Human ST14

Cat. No. ST14-30315TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment corresponding to amino acids 298-400 of Human ST14 with an N terminal proprietary tag; Predicted MWt 36.96 kDa.

Species Human

Source Wheat Germ

ProteinLength 103 amino acids

Description The protein encoded by this gene is an epithelial-derived, integral membrane serine protease. This protease forms a complex with the Kunitz-type serine protease inhibitor, HAI-1, and is found to be activated by sphingosine 1-phosphate. This protease has been shown to cleave and activate hepatocyte growth factor/scattering factor, and urokinase plasminogen activator, which suggest the function of this protease as an epithelial membrane activator for other proteases and latent growth factors. The expression of this protease has been associated with breast, colon, prostate, and ovarian tumors, which implicates its role in cancer invasion, and metastasis.

Molecular Weight 36.960kDa inclusive of tags

Form Liquid

Purity Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PPSYNLTFHSSQNVLLITLITNTERRHPGFEATFFQLPRM SSCGGRLRKAQGTFNSP YYPGHYPPNIDCTWNIEVPNNQH VKVRFKFFYLLEPGVPAGTCKPD
Sequence Similarities	Belongs to the peptidase S1 family. Contains 2 CUB domains. Contains 4 LDL-receptor class A domains. Contains 1 peptidase S1 domain.

GENE INFORMATION

Gene Name	ST14 suppression of tumorigenicity 14 (colon carcinoma) [Homo sapiens]
Official Symbol	ST14
Synonyms	ST14; suppression of tumorigenicity 14 (colon carcinoma); PRSS14; suppressor of tumorigenicity 14 protein; epithin; HAI; matriptase; MT SP1; SNC19; TMPRSS14;
Gene ID	6768
mRNA Refseq	NM_021978
Protein Refseq	NP_068813
MIM	606797
Uniprot ID	Q9Y5Y6
Chromosome Location	11q24-q25

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Function

peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;

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