

Recombinant Human ST14

Cat. No. ST14-31173TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ST14 with N terminal proprietary tag; Predicted MWt 120.12 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	855 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	120.120kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents: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	MGSDRARKGGGGPKDFGAGLKYNSRHEKVNGLEEGVEFLP VNNVKKVEKHGPGR WVLA AVLIGLLLVLGIGFLVHLQ YRDVRVQKVFNGYMRITNENFVDAYENSNST EFVSLASKV KDALKLLYSGVPFLGPYHKESAVTAFSEGSVIAYYWSEFS IPQHLVEE AERVMAEERVVMLPPRARSLKSFVVTSVVAFP TDSKTQRTQDNSCSFG LHARGV ELMRFTTPGFPDSPYPA HARCQWALRGDADSVLSLTFRSFDLASCDERGS DLVTV YN TLSPMEPHALVQLCGTYPPSYNLTFHSSQNVLLITLITNT ERRHPGFEATFFQLP RMSSCGGRLRKAQGTFNSPYYPGHI PPNIDCTWNIEVPNNQHV KVRFKFFYLLEP GVPAGTCPKD YVEINGEKYCGERSQFVVTSNSNKITVRFHSDQSYTDTGF LAEYLS YDSSDPCPGQFTCRTGRCIRKELRCDGWADCTDH SDELNCSCDAGHQFTCKNKF CKPLFWVCDSVNDCGDN SDE QGCSCPAQTFRC SNGKCLSKSQQCNGKDDCGDG SDEASCP KVNVTCTKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEK DCDCGLR SFTRQARVVG GTDADEGEWPWQVSLHALGQGHI CGASLIPNWLVSAAHCYIDDR GFRYS DPTQWTAFLGLHD QSQRSAPGVQERRLKRIISHPFFNDFTFDYDIALLELEK P AEYSSMVRPICLPDASHVFPAGKAIWVTGWGHTQYGGTGA LILQKGEIRVINQTT CENLLPQQITPRMMCVGFLSGGVDS CQGDSSGGLSSVEADGRIFQAGVVS WGDG CAQRNKPGVYT RLPLFRDWIKENTGV
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

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

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