Active Recombinant Human ST14, His-tagged

Cat. No. ST14-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST14(Gly596Val855) fused with an Nterminal Met and 6His tag, was expressed in E. coli.
Species	Human
Source	E.coli
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 Mass	Predicted molecular mass is 26 kDa; Other fragments of 19 kDa, 17 kDa, 9 kDa and 6 kDa are also observed in the recombinant protein preparation. It migrates as 27 kDa (major), 20 kDa, 17 kDa, 10 kDa, 6.5 kDa, under reducing conditions.
Predicted N terminal	Val615
Formulation	Supplied as a 0.2 μm filtered solution in TrisHCl and Glycerol.

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

Purity	>90% as determined by SDSPAGE
Activity	Measured by its ability to cleave the fluorogenic peptide substrate BocQAR-AMC.
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
Storage	6 months from date of receipt, 20 to 70°C as supplied. Avoid repeated freezethaw cycles.

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

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

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

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