

Recombinant Human PRSS22, His-tagged

Cat. No. PRSS22-7980H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BrainSpecific Serine Protease 4/BSSP4 produced by transfected human cells is a secreted protein with sequence(Ala33Ser317) of Human BSSP4 Trypsase fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	BrainSpecific Serine Protease 4 (BSSP4) is a serine protease that preferentially cleaves the synthetic substrate HDLeuThrArgpNA compared to tosylGlyProArgpNA. BSSP4 is expressed abundantly in the epithelial cells of the airways, including trachea, esophagus and fetal lung, but scarce in adult lung and expressed at low levels in placenta, pancreas, prostate and thyroid gland. BSSP4 belongs to the peptidase S1 family and related to trypsin, referentially hydrolyzing substrates after arginine and lysine residues. However, BSSP4 is less susceptible to inhibition by common trypsin inhibitors such as aprotinin, alpha1antitrypsin and secretory leukocyte protease inhibitor. BSSP4 efficiently converts prourokinase type plasminogen activator to its mature, active form.
Form	Supplied as a 0.2 µM filtered solution of 20mM HAcNaAc, 150mM NaCl, 10% Glycerol, pH 4.5
AA Sequence	ARIPVPPACG KPQQLNRVVG GEDSTDSEWP WIVSIQKNGT HHCAGSLLTS RWVITAAHCF KDNLNKPYL FSVLLGAWQL GNPGRSQKV GVAWVEPHPV

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YSWKEGACAD IALVRLERSI Q FSERVLPI CLPDASIHLP PNTHCWISGW
 GSIQDGVPLP HPQTLQKLKV PIIDSEVCSH LY WRGAGQG PITEDMLCAG
 YLEGERDACL GDSGGPLMCQ VDGAWLLAGI ISWGEGCAER NRP GVIYISL
 SAHRSWVEKI

Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Store at less than 20°C. stable for 6 months after receipt. Please minimize freezethaw cycles.

GENE INFORMATION

Gene Name	PRSS22 protease, serine, 22 [Homo sapiens]
Official Symbol	PRSS22
Synonyms	PRSS22; protease, serine, 22; brain-specific serine protease 4; brain specific serine protease 4; BSSP 4; hBSSP 4; SP001LA; prosemin; tryptase epsilon; serine protease 22; serine protease 26; protease, serine S1 family member 22; BSSP-4; hBSSP-4; MGC9599;
Gene ID	64063
mRNA Refseq	NM_022119
Protein Refseq	NP_071402
MIM	609343

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UniProt ID	Q9GZN4
Chromosome Location	16p13.3
Function	peptidase activity; serine-type endopeptidase activity;

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