



Recombinant Protein Technical Manual

Recombinant Human PRSS22/BSSP-4 Protein (His Tag)

RPES1467

Product Data:

Product SKU: RPES1467

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9GZN4

Protein Information:

Molecular Mass: 31.6 kDa

AP Molecular Mass: 32 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HAc-NaAc, 150mM NaCl, 10% Glycerol, pH 4.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Brain-Specific Serine Protease 4; BSSP-4; Serine Protease 22; Serine Protease 26; Tryptase Epsilon; PRSS22; BSSP4; PRSS26

Immunogen Information:

Sequence: Ala33-Ser317

Background:

Brain-Specific Serine Protease 4 (BSSP-4) is a serine protease that preferentially cleaves the synthetic substrate H-D-Leu-Thr-Arg-pNA compared to tosyl-Gly-Pro-Arg-pNA. BSSP-4 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. BSSP-4 belongs to the peptidase S1 family and related to trypsin, referentially hydrolyzing substrates after arginine and lysine residues. However, BSSP-4 is less susceptible to inhibition by common trypsin inhibitors such as aprotinin, α 1-antitrypsin and secretory leukocyte protease inhibitor. BSSP-4 efficiently converts pro-urokinase- type plasminogen activator to its mature, active form.