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Datasheet for ABIN1097712

PRSS22 Protein (AA 33-317) (His tag)

Overview

| | |
|-------------------------------|---|
| Quantity: | 50 µg |
| Target: | PRSS22 |
| Protein Characteristics: | AA 33-317 |
| Origin: | Human |
| Source: | Human Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PRSS22 protein is labelled with His tag. |

Product Details

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| Purpose: | Recombinant Human Tryptase epsilon/Brain-Specific Serine Protease 4/BSSP-4 (C-6His) |
| Sequence: | ARIPVPPACG KPQQLNRVVG GEDSTDSEWP WIVSIQKNGT HHCAGSLLTS RWVITAAHCF KDNLNKPYLF SVLLGAWQLG NPGSRSQKVG VAWVEPHPVY SWKEGACADI ALVRLERSIQ FSERVLPICL PDAIHLPPN THCWISGWGS IQDGVPLPHP QTLQKLKVPI IDSEVCSHLY WRGAGQGPIIT EDMLCAGYLE GERDACLGDS GGPLMCQVDG AWLLAGIISW GEGCAERNRP GVYISLSAHR SWVEKIVQGV QLRGRAQGGG ALRAPSQGSG AAARSHHHHH H |
| Characteristics: | Recombinant Human Brain-Specific Serine Protease 4/BSSP-4 produced by transfected human cells is a secreted protein with sequence(Ala33-Ser317) of Human BSSP-4 Tryptase fused with a polyhistidine tag at the C-terminus. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Sterility: | 0.2 µm filtered |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test |

Target Details

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|-------------------|---|
| Target: | PRSS22 |
| Alternative Name: | trypsin-epsilon (PRSS22 Products) |
| Sub Type: | Fusionprotein |
| Background: | <p>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, alpha1-antitrypsin and secretory leukocyte protease inhibitor. BSSP-4 efficiently converts pro-urokinase- type plasminogen activator to its mature, active form.</p> <p>Alternative Names: Brain-Specific Serine Protease 4, BSSP-4, Serine Protease 22, Serine Protease 26, Trypsin Epsilon, PRSS22, BSSP4, PRSS26</p> |
| Molecular Weight: | 31.56 kDa |
| UniProt: | Q9GZN4 |

Application Details

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| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Reconstitution: | <p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p> |
| Buffer: | Supplied as a 0.2 µm filtered solution of 20 mM HAc-NaAc, 150 mM NaCl, 10 % Glycerol, pH 4.5. |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. |
| Storage: | -80 °C |
| Storage Comment: | <p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p> |

Handling

Expiry Date: 6 months