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Datasheet for ABIN7544423

TMPRSS4 Protein (AA 1-437) (His tag)

Overview

Quantity:	1 mg
Target:	TMPRSS4
Protein Characteristics:	AA 1-437
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMPRSS4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TMPRSS4 Protein expressed in mammalian cells.
Sequence:	MLQDPDSDQP LNSLDVKPLR KPRIPMETFR KVGIPIIIAL LSLASIIIVV VLIKVILDKY YFLCGQPLHF IPRKQLCDGE LDCPLGEDEE HCVKSFPEGP AVAVRLSKDR STLQVLDSAT GNWFSACFDN FTEALAEAC RQMGYSSKPT FRAVEIGPDQ DLDVVEITEN SQELMRNNS GPCLSGSLVS LHCLACGKSL KTPRVVGVVEE ASVDSWPWQV SIQYDKQHVC GGSILDPHWV LTAAHCFRKH TDVFNWKVRA GSKDLGSFPS LAVAKIIIE FNPMYPKDND IALMKLQFPL TFSGTVRPIC LPFFDEELTP ATPLWIIGWG FTKQNGGKMS DILLQASVQV IDSTRCNADD AYQGEVTEKM MCAGIPEGGV DTCQGDSGGP LMYQSDQWHV VGIVSWG YGC GGPSTPGVYT KVSAYLNWIY NVWKAEL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

TMPRSS4

Alternative Name:

TMPRSS4 ([TMPRSS4 Products](#))

Background:

Transmembrane protease serine 4 (EC 3.4.21.-) (Channel-activating protease 2) (CAPH2) (Membrane-type serine protease 2) (MT-SP2) [Cleaved into: Transmembrane protease serine 4 catalytic chain],FUNCTION: Plasma membrane-anchored serine protease that directly induces processing of pro-uPA/PLAU into the active form through proteolytic activity (PubMed:24434139). Seems to be capable of activating ENaC (By similarity). {ECO:0000250|UniProtKB:Q8VCA5, ECO:0000269|PubMed:24434139}., FUNCTION: (Microbial infection) In gut epithelial cells, facilitates human coronavirus SARS-CoV-2 infection through, at least, the cleavage of coronavirus spike glycoproteins which activates the glycoprotein for host cell entry. {ECO:0000269|PubMed:32404436}.

Molecular Weight:

48.2 kDa

UniProt:

[Q9NRS4](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
