

TMRSS4 Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	TMRSS4;Membrane-type serine protease 2 (MT-SP2);TMRSS3;Channel-activating protease 2 (CAHP2);Transmembrane protease serine 4
Protein Construction:	54-437 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9NRS4
Molecular Weight:	49.8 kDa (predicted)
AA Sequence:	<p>KVILDKYYFLCGQPLHFIPRKQLCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLDSATGNWFSA CFDNFTEALAEACRQMGYSSKPTFRAVEIGPDQDLDVVEITENSQELMRNSSGPCLSGSLVSLHCLACGKS LKTPRVVGVEEASVDSWPWQVSIQYDKQHVCSSILDPHWVLTAAHCFRKHTDVFNWKVRAGSDKLGSFPS LAVAKIIIIEFNPMYPKDNDIALMKLQFPLTFSGTVRPICLPFFDEELTPATPLWIIGWGFTKQNGGKMSDILLQA SVQVIDSTRCNADDAYQGEVTEKMMMCAGIPEGGVDTCQGDSSGGLMYQSDQWHVVGIVSWGYGCGGPSTP GVYTKVSAYLNWIYNVWKAEL</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plasma membrane-anchored serine protease that directly induces processing of pro-uPA/PLAU into the active form through proteolytic activity. Seems to be capable of activating ENaC.; (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.

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