

## TMEM2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Tmem2;Kiaa1412;Transmembrane protein 2;Cell migration-inducing hyaluronidase 2;Cell surface hyaluronidase;Cemip2
Protein Construction:	104-250 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q5FWI3
Molecular Weight:	21.7 kDa (predicted)
AA Sequence:	SSKYAPDENCPDQNPRLRNWDPGQDSAKHIVIKEGDLFRLTSDATVDSIVIQDGGLLVFGDDKDGSKNITLRT RYILIQDGGALHIGAIEKCRYRSKATITLYGKSDERESMPIFGKKFIGVEAGGTLELHGAQRTSWTMLARTLHSS

### 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/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### 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

Cell surface hyaluronidase that mediates the initial cleavage of extracellular high-molecular-weight hyaluronan into intermediate-size hyaluronan of approximately 5 kDa fragments. Acts as a regulator of angiogenesis and heart morphogenesis by mediating degradation of extracellular hyaluronan, thereby regulating VEGF signaling. Is very specific to hyaluronan; not able to cleave chondroitin sulfate or dermatan sulfate.

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