

Recombinant Rat TM7S3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52723

Size: 10ug, 100ug

Protein Name: Transmembrane 7 superfamily member 3

Synonym: Tm7sf3

UniProt ID: Q5FVF4

UniProt Link: www.uniprot.org/uniprotkb/Q5FVF4/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 565 AA

Molecular Weight: 64 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MWRLRLLVLAVLAAGSAEAQANSSDGFLEFSVGKFTYFVLSRRFPQEAVLRHISSNVTFLLFQIHSQY
QNTTVSYTKTLLPSTSGTGNDRLVFI LRPEQTVCTWYLETEDTKPVQSVAVTLTSYSERDPIPGGCN
LEFDLDIDPNIYLDYNFFETTIFKAPANIGYARAAEPPPCDVSTGQESRWRLRYHVYQYFLPEGDLTE
ASLLQHLQRMAQVQVMASAVKVVTLTADDKTVVSFSSLPQGQVIYNVIVWDPSLNTSAAYVPVHTY
ACSFDSVDGNCVPPGRVSTKVFSTLFCALLGLFTCFHGRFWKTELFFVGFIFLGFFFYILITRLTALKY
EVRVLVTAVAGSIGGLLLVASWWRFGLTLCMLCVGLVLGFLVSSGTFFTPLGNLNVFHDDGVFWVT
FSCIALLPVIFLGCLRILNACGIVGSYSVVLAINSYMFTSLSYITLNLRRALNADFRGAFIRVPFQTN
DYIILAVWGMLAVTGITLQIRRRERGRPPFPHPYKLWKQERERRVTNILDPSHHIPPLRERLYGWVAR
IKELFQKEQPAGERTPLLL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Transmembrane 7 superfamily member 3 produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Involved in the inhibition of cytokine-induced death of pancreatic beta cells (By similarity). Involved in the promotion of insulin secretion from pancreatic beta cells (By similarity). Is a downstream transcriptional target of p53/TP53, and acts as a pro-survival homeostatic factor that attenuates the development of cellular stress. Maintains protein homeostasis and promotes cell survival through attenuation of endoplasmic reticulum (ER) stress and the subsequent induction of unfolded protein response (UPR) (By similarity).

Subcellular Localization: Cell membrane ; Multi-pass membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.