

Recombinant Rat TF Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52361

Size: 10ug, 100ug

Protein Name: Tissue factor (TF) (Coagulation factor III) (CD antigen CD142)

Synonym: F3, Cf3

UniProt ID: P42533

UniProt Link: www.uniprot.org/uniprotkb/P42533/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 295 AA

Molecular Weight: 33 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAIPMRPRLLAALPTFLGFLLLQVAVGAGTPPGKAFNLTWISTDFKTILEWQPKPTNYTYTVQISDR
SRNWKYKCTGTTDTECDLTDEIVKDVNWYEARVLSVPWRNSTHGKETLFGTHGEEPPFTNARKFL
PYRDTKIGQPVIQKYEQQGTKLKVTVKDSFTLVRKNGTFLTLRQVFGNDLGYILTYRKDSSTGRKTNT
THTNEFLIDVEKGVSYCFFAQAVIFSRKTNHKSPESITKCTEQWKSVLGETLIIVGAVVFLVTVFIILLTIS
LCKRRKNRAGQKRKNTPSRLA

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 Tissue factor (TF) (Coagulation factor III) (CD antigen CD142) 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: Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited proteolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.

Subcellular Localization: Membrane ; Single-pass type I 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.