

Recombinant Human TNF12 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50989

Size: 10ug, 100ug

Protein Name: Tumor necrosis factor ligand superfamily member 12 (APO3 ligand) (TNF-related weak inducer of apoptosis) (TWEAK) [Cleaved into: Tumor necrosis factor ligand superfamily member 12, membrane form; Tumor necrosis factor ligand superfamily member 12, secreted form]

Synonym: TNFSF12, APO3L, DR3LG, UNQ181/PRO207

UniProt ID: O43508

UniProt Link: www.uniprot.org/uniprotkb/O43508/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 249 AA

Molecular Weight: 27 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAARRSQRRRGRRGEPGTALLVPLALGLGLALACLGLLAVVSLGSRASLSAQEPAQEELVAEEDQ
DPSELNPQTEESQDPAPFLNRLVRPRRSAPKGRKTRARRAIAAHYEVHPRPGQDGAQAGVDGTVS
GWEEARINSSSPLRYNRQIGEFIVTRAGLYLYCYQVHFDEGKAVYLLKDLLVDGVLALRCLEEFSA
ASSLGPQLRLCQVSGLLALRPGSSLRIRTLPWHLKAAPFLTYFGLFQVH

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 Tumor necrosis factor ligand superfamily member 12 (APO3 ligand) (TNF-related weak inducer of apoptosis) (TWEAK) [Cleaved into: Tumor necrosis factor ligand superfamily member 12, membrane form; Tumor necrosis factor ligand superfamily member 12, secreted form] 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: Binds to FN14 and possibly also to TNFRSF12/APO3. Weak inducer of apoptosis in some cell types. Mediates NF-kappa-B activation. Promotes angiogenesis and the proliferation of endothelial cells. Also involved in induction of inflammatory cytokines. Promotes IL8 secretion.

Subcellular Localization: Cell membrane ; Single-pass type II membrane protein .; [Tumor necrosis factor ligand superfamily member 12, secreted form]: Secreted.; [Isoform TWE-PRIL]: Cell membrane; Single-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.