

Recombinant Human THNS2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50961

Size: 10ug, 100ug

Protein Name: Threonine synthase-like 2 (TSH2) (EC 4.2.3.-) (Secreted osteoclastogenic factor of activated T-cells) (SOFAT)

Synonym: THNSL2

UniProt ID: Q86YJ6

UniProt Link: www.uniprot.org/uniprotkb/Q86YJ6/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 484 AA

Molecular Weight: 54 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MWYVSTRGVAPRVNFEGALFSGYAPDGGLFMPEELPQLDRGTL CQWSTLSYPGLVKELCALFIGSE
LLPKDELNDLIDRAFSRFRHREVVHLSRLRNGLVLELWHGVTYAFKDL SLSCTTQFLQYFLEKREK
HVTVVVGTS GDTGSAAIESVQGAKNMDIIVLLPKGHCTKIQELQMTTVLKQNVHVFGVEGNSDELDE
PIKTVFADVAFVKKHNLM SLNSINWSRVLVQMAHHFFAYFQCTPSLDTHPLPLVEVVVPTGAAGNLA
AGYIAQKIGLPIRLVVAVNRNDIIHRTVQQGDFSLSEAVKSTLASAMDIQVPYNMERVFWLLSGSDSQ
VTRALMEQFERTQSVNLPKELHSLSEAVTSVSVSDEAITQTMGRCWDENQYLLCPHS AVAVNYHY
QQIDRQQPSTPRCCLAPASAAKFPEAVLAAGLTPETPAEIVALEHKETRCTL MRRGDNWMLMLRDTI
EDLSRQWRSHALNTSQ

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 Threonine synthase-like 2 (TSH2) (EC 4.2.3.-) (Secreted osteoclastogenic factor of activated T-cells) (SOFAT) 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: [Isoform 1]: Acts as a catabolic phospho-lyase on both gamma- and beta-phosphorylated substrates. Degrades O-phospho-threonine (PThr) to alpha-ketobutyrate, ammonia and phosphate (By similarity).; [Isoform SOFAT]: Potent inducer of osteoblastic production of IL6. May act to exacerbate inflammation and/or bone turnover under inflammatory conditions.

Subcellular Localization: [Isoform SOFAT]: Secreted. Note=Secreted by activated T-cells via a calcineurin-independent pathway.

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.