

Recombinant Rat ANGP1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52204

Size: 10ug, 100ug

Protein Name: Angiopoietin-1 (ANG-1)

Synonym: Angpt1

UniProt ID: O35460

UniProt Link: www.uniprot.org/uniprotkb/O35460/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 497 AA

Molecular Weight: 57 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTVFLSFAFFAAILTHIGCSNQRRSPENGGRRYNRIQHGGCAYTFILPEHDGNCRESATEQYNTNAL
QRDAPHVETDFSSQKLQHLEHVMENYTQWLQKLENYIVENMKSEMAQIQQNAVQNHTATMLEIGTS
LLSQTAEQTRKLTDTVETQVLNQTSRLEIQLLNSLSTYELEKQLLQQTNEILKIQEKNSLLEHKILEMEG
KHKEELDTLKEEKENLQGLVTRQTFIIQELEKQLSRATSNNSVLQKQQLELMDTVHNLVSLCTKEVLL
KGGKREEEEKPFRDCADVYQAGFNKSGIYTIYFNNMPEPKKVFNCMDVNEGGWTVIQHREDGSLDF
QRGWKEYKMGFGNPSGEYWLGNFIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNQKQNYR
LYLKGHTGTAGKQSSLILHGADFSTKADNDNDCMCKCALMLTGGWWFDACGPSNLNGMFYTAGQ
NHGKLNGIKWHYFKGPSYSLRSTTMMIRPLDF

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 Angiopoietin-1 (ANG-1) 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 and activates TIE2 receptor by inducing its tyrosine phosphorylation. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. Mediates blood vessel maturation/stability. It may play an important role in the heart early development.

Subcellular Localization: Secreted .

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.