

ANGPT1/Angiopoietin-1 Protein, Rat, Recombinant (His)

General Information

Synonyms: ANG-1;Angpt1;Angiopoietin-1

Protein Construction: 20-497 aa

Species: Rat

Expression Host: HEK293 Cells

Accession: O35460

Molecular Weight: 56.5 kDa (predicted)

AA Sequence: SNQRRSPENGRRYNRQHGQCAYTFILPEHDGNCRSATEQYNTNALQRDAPHVETDFSSQKLQHLEHVM
ENYTQWLQKLENYIVENMKSEMAQIQQQNAVQNHTATMLEIGTSLLSQTAEQTRKLTDVETQVLNQTSRLEIQ
LLENSLSTYELEKQLLQQTNEILKIQEKNSLLEHKILEMEGKHKELDTLKEEKENLQGLVTRQTFIIQELEKQLSR
ATSNNNSVLQKQQLELMDTVHNLVSLCTKEVLLKGGKREEEKPFRDCADVYQAGFNKSGIYTIYFNNMPEPKK
VFCNMDVNEGGWTVIQHREDGSQDFQRGWKEYKMGFGNPSGEYWLGNFIFAIITSQRQYMLRIELMDWEG
NRAYSQYDRFHIGNQKQNYRLYLKGHTGTAGKQSSLILHGADFSTKDADNDNCMCKCALMLTGGWWFDAC
GPSNLNGMFYTAGQNHGKNGIKWHYFKGPSYLSRSTTMMIRPLDF

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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