

## ANGPT1/Angiotensin-1 Protein, Rat, Recombinant (His)

### General Information

Synonyms: ANG-1;Angpt1;Angiotensin-1

Protein Construction: 20-497 aa

Species: Rat

Expression Host: HEK293 Cells

Accession: O35460

Molecular Weight: 56.5 kDa (predicted)

AA Sequence: SNQRRSPENGGRRYNRIQHGGQCAITFILPEHDGNCRESATEQYNTNALQRDAPHVETDFSSQKLQHLHVM  
ENYQTWLQKLENIYVENMKSEMAQIQNAVQNHTATMLEIGTSLLSQTAETRKLTQVLTQTSRLEIQ  
LLENSLSTYELEKQLLQQTNEILKIQEKNSLLEHKILEMEGKHKEELDTLKEEKENLQGLVTRQTFIIQELEKQLSR  
ATSNNSVLQKQQLMDTVHNLVSLCTKEVLLKGGKREEKPFRCADVYQAGFNKSGIYTIYFNNMPEPKK  
VFCNMDVNEGGWTVIQHREDGSLDFQRGWKEYKMGFGNPSGEYWLGNFIFAITSQRQYMLRIELMDWEG  
NRAYSQYDRFHIGNQKQNYRLYLKGHTGTAGKQSSLLHGAADFSTKDADNDNCMKCALMLTGGWWFDAC  
GPSNLNGMFYTAGQNHGKLNIGKWHYFKGPSYSLRSTTMMIRPLDF

### 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.

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:34 Washington Street,Wellesley Hills,MA 02481