

ANGPTL7 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	Angiopoietin-like factor; angiopoietin-like 7; AngX; ANGPTL7; CDT6
Protein Construction:	Gln27-Pro346
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43827
Molecular Weight:	40.2 kDa (predicted). Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.

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:	> 90% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Angiopoietin-like 7 (ANGPTL7), also known as Corneal-Derived Transcript 6 (CDT6), is a secreted glycoprotein that is structurally related to the angiopoietins. Members of this protein family contain an N-terminal coiled coil domain and a C-terminal fibrinogen-like domain. ANGPTL7 is expressed in the corneal stroma, trabecular meshwork, and sclera and is elevated in glaucoma aqueous humor. Its production is up-regulated in trabecular meshwork cells by glucocorticoids and TGF-beta and in cartilage by TNF-alpha.

Reference

Núria Comes, Buie L K K , Teresa Borrás. Evidence for a role of angiopoietin-like 7 (ANGPTL7) in extracellular matrix formation of the human trabecular meshwork: implications for glaucoma[J]. Genes to cells : devoted to molecular & cellular mechanisms, 2011, 16(2):243-259.

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