

Active Recombinant Mouse Angiopoietin-Like 7, His-tagged

Cat. No. Angptl7-555M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Angptl7 protein was expressed in Chinese Hamster Ovary cell line with a C-terminal 10-His tag. Met1-Pro337.
Species	Mouse
Source	CHO
Protein Length	1-337 a.a.
Description	Angptl7, also known as Corneal Derived Transcript 6 (CDT6), is a secreted, 45-50 kDa glycoprotein member of the angiopoietin-like family of molecules. Members of this protein family contain an N-terminal coiled coil domain and a C-terminal fibrinogen-like domain. Mature mouse Angptl7 is 316 amino acids (aa) in length. It shares 88% and 98% aa sequence identity with human and rat Angptl7, respectively. The Angptl7 monomer forms homotetramers via its coiled coil domain. Angptl7 is expressed in the corneal stroma, trabecular meshwork, and sclera. Its production is upregulated in trabecular meshwork cells by glucocorticoids and TGFβ and in cartilage by TNFα.
Form	Lyophilized from a 0.2 μm filtered solution in NaH ₂ PO ₄ and NaCl with BSA as a carrier protein.
N-terminal Sequence	Gln22 predicted
Molecular Weight	37.9 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	Measured by its ability to promote the expansion of E16 rat liver mononuclear cells in vitro, in the presence of Recombinant Mouse SCF, Recombinant Mouse Thrombopoietin, and Recombinant Mouse Flt3 Ligand. The ED50 for this effect is typically 60-240 ng/mL in the presence of a crosslinking Mouse Anti-polyHistidine Monoclonal Antibody.
Endotoxin Level	< 1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	45-55 kDa, reducing conditions.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	500 µg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Angptl7 angiotensin-like 7 [<i>Mus musculus</i>]
Official Symbol	Angptl7
Synonyms	Angptl7; angiotensin-like 7; angiotensin-related protein 7; angiotensin-like protein 7
Gene ID	654812
mRNA Refseq	NM_001039554

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Protein Refseq	NP_001034643
UniProt ID	Q8R1Q3
Chromosome Location	4 E1; 4
Function	receptor binding

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