

## Active Recombinant Human EREG Protein

Cat. No. EREG-004H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The mature recombinant human Ang-2 protein containing 478aa (Y19-F496) without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 19-496 a.a.

**Description** This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome.

**Bio-activity** Measured by its ability to activate Tie-2 in C6 rat glial cells transfected with human Tie-2. 0.2 µg/mL of Recombinant Human Angiopoietin-2 significantly induces phosphorylation of human Tie-2.

**Molecular Mass** 56 kDa

**Product-Related** 19-496

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<b>Proteins</b>	
<b>Endotoxin</b>	< 0.1 EU/μg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	At -80 centigrade. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	ANGPT2 angiotensinogen 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	EREG
<b>Synonyms</b>	ANGPT2; angiotensinogen 2; ANG2; AGPT2; LMPHM10; angiotensinogen-2; Tie2-ligand; angiotensinogen-2B; angiotensinogen-2a
<b>Gene ID</b>	285
<b>mRNA Refseq</b>	NM_001147
<b>Protein Refseq</b>	NP_001138
<b>MIM</b>	601922
<b>UniProt ID</b>	O15123

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