

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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Proteins

Endotoxin < 0.1 EU/μg of the protein as determined by the LAL method

Purity > 95 % as determined by SDS-PAGE

Storage At -80 centigrade. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [ANGPT2 angiopoietin 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [EREG](#)

Synonyms ANGPT2; angiopoietin 2; ANG2; AGPT2; LMPHM10; angiopoietin-2; Tie2-ligand; angiopoietin-2B; angiopoietin-2a

Gene ID [285](#)

mRNA Refseq [NM_001147](#)

Protein Refseq [NP_001138](#)

MIM [601922](#)

UniProt ID [O15123](#)

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