Recombinant Human ANGPT2, His-tagged, Biotinylated

Cat. No. ANGPT2-269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Angiopoietin-2 Protein, Biotinylated (Biotinylated ANGPT2) Tyr 19 - Phe 496, was labeled with biotin based on rhANGPT2 Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	19-496 a.a.
Description	The protein encoded by this gene is an antagonist of angiopoietin 1 (ANGPT1) and endothelial TEK tyrosine kinase (TIE-2, TEK). The encoded protein disrupts the vascular remodeling ability of ANGPT1 and may induce endothelial cell apoptosis. Three transcript variants encoding three different isoforms have been found for this gene.?
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated ANGPT2, fused with 6×His tag at the C-terminus, has a calculated MW of 50.1 kDa. The predicted N-terminus is Asp 68 & Tyr 19. DTT-reduced Protein migrates as 66-90 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per μg of the Biotinylated ANGPT2 by the LAL method.

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

Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

GENE INFORMATION

Gene Name	ANGPT2 angiopoietin 2 [Homo sapiens]
Official Symbol	ANGPT2
Synonyms	ANGPT2; angiopoietin 2; angiopoietin-2; Ang2; ANG-2; Tie2-ligand; angiopoietin-2B; angiopoietin-2a; ANG2; AGPT2;
Gene ID	285
mRNA Refseq	NM_001118887
Protein Refseq	NP_001112359
MIM	601922
UniProt ID	O15123
Chromosome Location	8p23
Pathway	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis,

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	organism-specific biosystem; Tie2 Signaling, organism-specific biosystem;
Function	metal ion binding; protein binding; receptor binding; receptor tyrosine kinase binding;

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