

Recombinant Human MS4A1, His-tagged

Cat. No. MS4A1-8530H Lot. No. (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the human ANGPT4 (NP_068769.2) (Met282-Ile503) was expressed, with an N-terminal polyhistidine tag.

Species Human

Source Human Cells

ProteinLength 282-503 a.a.

Description Angiopoietin 4, also known as ANG-4 or ANGPT4, is a protein belonging to the angiopoietin family and is highly expressed in the lung with much lower levels found in other tissues. Angiopoietin 4 / ANG-4 / ANGPT4 is a protein with important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The mechanism by which they contribute to angiogenesis is thought to involve regulation of endothelial cell interactions with supporting perivascular cells. The protein encoded by this gene functions as an agonist and is an angiopoietin. Angiopoietin 4 secreted ligand for the vascular endothelial restricted receptor tyrosine kinase TEK, including phosphorylation of TEK, promoting angiogenic remodeling as well as vessel maturation and stabilization, predominantly expressed in lung.

Predicted N Terminal His

Form Lyophilized from sterile PBS, pH7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.

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Molecular Mass	The recombinant human ANGPT4 comprises 242 amino acids and has a predicted molecular mass of 27.6 kDa. The apparent molecular mass of the protein is approximately 38 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	> 80 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	MS4A1 membrane-spanning 4-domains, subfamily A, member 1 [Homo sapiens]
Official Symbol	MS4A1
Synonyms	MS4A1; membrane-spanning 4-domains, subfamily A, member 1; CD20; B-lymphocyte antigen CD20; B1; Bp35; MS4A2; CD20 antigen; CD20 receptor; leukocyte surface antigen Leu-16; B-lymphocyte cell-surface antigen B1; S7; CVID5; LEU-16; MGC3969;
Gene ID	931
mRNA Refseq	NM_021950
Protein Refseq	NP_068769
MIM	112210

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UniProt ID	P11836
Chromosome Location	11q12-q13.1
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	epidermal growth factor receptor binding;

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