

## Recombinant Human CLEC10A, His-tagged

**Cat. No.** CLEC10A-7800H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CType Lectin Domain Family 10 Member A/CLEC10A is produced with our mammalian cells expression system in HEK293. The target protein is expressed with sequence (Gln61His316) of Human CLEC10A fused with a polyhistidine tag at the Cterminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	CType Lectin Domain Family 10 Member A (CLEC10A) is a type II transmembrane Ctype lectin that is expressed on immature myeloid dendritic cells and alternatively activated (tolerogenic) macrophages. CLEC10A/MGL binds and internalizes molecules with terminal nonsialylated GalNAc carbohydrates such as the Tn carcinoma antigen. CLEC10A/MGL also binds the GP envelope glycoprotein on Marburg and Ebola viruses and enhances viral entry and infectivity. It constitute a unique class of Ctype lectins because of their specificity for galactose and its structural homologues. CLEC10A is thought to participate in the recognition of molecules from both altered self and pathogens due to its monosaccharide specificity for Gal and Nacetylgalactosamine (GalNAc). Human and rat carry a single gene for CLEC10A/MGL, while mouse has two closely related MGL1 and MGL2 genes.
<b>Form</b>	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
<b>AA Sequence</b>	QNSKFQRDLV TLRTDFSNFT SNTVAEIQAL TSQGSSLEET IASLKAEEVG

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FKQERQAGVS ELQEHTTQK AHLGHCPHCP SVCVPVHSEM LLRVQQLVQD  
 LKKLTCQVAT LNNNASTEGT C CPVNWVEH QDSCYWFSHS GMSWAEAEKY  
 CQLKNAHLVV INSREEQNFV QKYLGSAYTW MG LSDPEGA WKWVDGTDYA  
 TGFQNWKPGQ PDDWQGHGLG GGEDCAHFHP DGRWNDDVCQ RPY HWVCEA  
 GLGQTSQESH

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

**Notes** For research use only.

**Storage** Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.

## GENE INFORMATION

**Gene Name** [CLEC10A C-type lectin domain family 10, member A \[ Homo sapiens \]](#)

**Official Symbol** CLEC10A

**Synonyms** CLEC10A; C-type lectin domain family 10, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 14 (macrophage derived) , CLECSF13, CLECSF14; C-type lectin domain family 10 member A; CD301; HML; HML2; macrophage lectin 2 (calcium dependent); C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 13 (macrophage-derived); C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 14 (macrophage-derived); MGL; CLECSF13; CLECSF14;

**Gene ID** [10462](#)

**mRNA Refseq** [NM\\_006344](#)

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<b>Protein Refseq</b>	NP_006335
<b>MIM</b>	605999
<b>UniProt ID</b>	Q8IUN9
<b>Chromosome Location</b>	17p13.2
<b>Function</b>	binding; sugar binding;

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