

Recombinant Human CLEC10A, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
Description	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 Nacetylglactosamine (GalNAc). Human and rat carry a single gene for CLEC10A/MGL, while mouse has two closely related MGL1 and MGL2 genes.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	QNSKFQRDLV TLRTDFSNT SNTVAEIQAL TSQGSSLEET IASLKAEVEG

 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

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](#)

 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

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

 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