



Recombinant Human Collectin-11 (C-6His)

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| Catalog # | EPT256 |
| Expression Host | Human Cells |
| DESCRIPTION | Recombinant Human Collectin-11 is produced by our Mammalian expression system and the target gene encoding Gln26-Met271 is expressed with a 6His tag at the C-terminus. |
| Accession | Q9BWP8 |
| Synonyms | Collectin-11; Collectin Kidney Protein 1; CL-K1; COLEC11 |
| Mol Mass | 27.14 KDa |
| AP Mol Mass | 30-35 KDa, reducing conditions |
| Purity | Greater than 90% as determined by reducing SDS-PAGE. |
| Endotoxin | Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| FORMULATION | Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. |





RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 μ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

Collectin-11 is a secreted protein that belongs to the COLEC10/COLEC11 family. Collectin-11 contains one C-type lectin domain and one collagen-like domain. Collectins play important roles in the innate immune system by binding to carbohydrate antigens on microorganisms, facilitating their recognition and





removal. Collectin-11 binds to various sugars including fucose and mannose, but does not bind to glucose, N-acetylglucosamine and N-acetylgalactosamine. It has a higher affinity for fucose compared to mannose. Collectin-11 binds lipopolysaccharides (LPS). It also involved in fundamental development serving as a guidance cue for neural crest cell migration. Defects in Collectin-11 are the cause of 3MC syndrome type 2 (3MC2).

SDS-PAGE

