

# Recombinant Human CD63 Protein, C-His-tagged

**Cat. No.** CD63-203H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant Human CD63 Protein with C-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | CD63 belongs to the tetraspanin family, which is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin enriched microdomains (TEMs) where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction. CD63, like other tetraspanins, is enriched in exosomes. It is also a component of Weibel-Palade bodies found in endothelial cells. Research studies demonstrate several functions of CD63 in different cell types including roles in mast cell degranulation, VEGF signaling in endothelial cells, recruitment of leukocytes to endothelial cells, and endosomal sorting during melanogenesis. |
| <b>Molecular Mass</b>   | ~11 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | AGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAANYTDWEKI<br>PSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

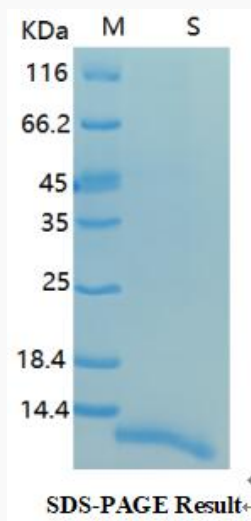
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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | For research use only, not for use in diagnostic procedure.                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>    | ≥0.5 mg/mL                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>   | PBS, 4M Urea, pH7.4                                                                                                                                                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>        | CD63 CD63 molecule [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>  | CD63                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | CD63; CD63 molecule; CD63 antigen (melanoma 1 antigen) , MLA1; CD63 antigen; ME491; TSPAN30; tspar-30; granulophysin; tetraspanin-30; melanoma-associated antigen MLA1; CD63 antigen (melanoma 1 antigen); melanoma-associated antigen ME491; ocular melanoma-associated antigen; lysosomal-associated membrane protein 3; lysosome-associated membrane glycoprotein 3; MLA1; LAMP-3; OMA81H; |
| <b>Gene ID</b>          | 967                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | NM_001257389                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_001244318                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 155740                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>       | P08962                                                                                                                                                                                                                                                                                                                                                                                        |

## SDS-PAGE



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