

# Human CD63 Full Length Protein, Flag,His Tag (Detergent)

Catalog # CD3-H55D3



BIOSYSTEMS  
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Surprise Inside!

## Synonym

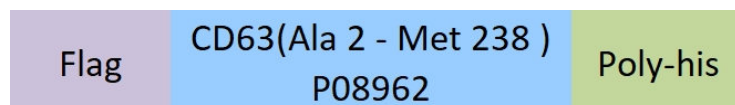
LAMP-3, ME491, MLA1, OMA81H, TSPAN30

## Source

Human CD63 Full Length Protein, Flag,His Tag(CD3-H55D3) is expressed from Baculovirus-Insect cells. It contains AA Ala 2 - Met 238 (Accession # [P08962](#)).

Predicted N-terminus: Met

## Molecular Characterization



This protein carries flag tag at the N-terminus and polyhistidine tag at the C-terminus.

The protein has a calculated MW of 29.6 kDa. The protein migrates as 27 kDa and 30-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

\*\*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of DDM.*

*DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.*

*DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.*

*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.*

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, pH7.5, CHS with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

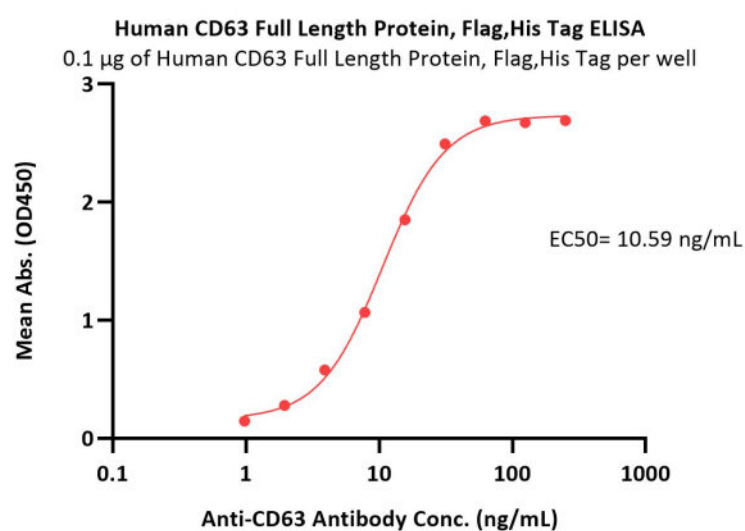
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## Bioactivity-ELISA



Immobilized Human CD63 Full Length Protein, Flag,His Tag (Cat. No. CD3-H55D3) at 1 µg/mL (100 µL/well) can bind Anti-CD63 Antibody with a linear range of 1-31 ng/mL (QC tested).

## Bioactivity-SPR

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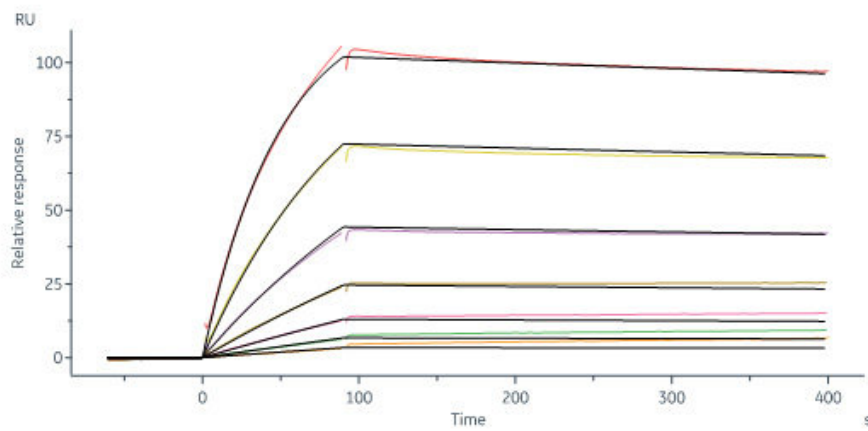
5/21/2024

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Catalog # CD3-H55D3



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Anti-CD63 Antibody captured on CM5 chip via anti-mouse antibodies surface can bind Human CD63 Full Length Protein, Flag,His Tag (Cat. CD3-H55D3) with an affinity constant of 11.0 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore 8K) (Routinely tested).

## Background

Functions as a cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FcεRI stimulation, but not in mast cell degranulation in response to other stimuli.

## Clinical and Translational Updates

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