

Recombinant Human CD276 Protein, hFc-tagged, FITC conjugated

Cat. No. CD276-303HF Lot. No. (See product label)

SPECIFICATION

Product Overview

FITC conjugated recombinant human CD276 (Gly27-Thr461) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species

Human

Source

HEK293

ProteinLength

Gly27-Thr461

Description

Human B7 homolog 3 (B7-H3) is a member of the B7 family of immune proteins that provide signals for the regulation of immune responses. Other family members include B7-1, B7-2, B7-H1/PD-L1, B7-H2, and PD-L2. B7 family proteins are type I transmembrane immunoglobulin (Ig) superfamily members that contain extracellular Ig V-like and Ig C-like domains with a short cytoplasmic tail. Termed 4IgB7-H3 or B7-H3b, this molecule has two additional Ig-like domains (one V-type and one C-type) and shows a ubiquitous expression pattern.

Form

Lyophilized

Molecular Mass

The protein has a calculated MW of 73.1 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

N-terminal Sequence Analysis

Gly 27

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Endotoxin | < 1.0 EU/ µg by the LAL method. |
| Purity | > 95 % as determined by SDS-PAGE |
| Characteristic | <p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p> |
| Storage | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| Storage Buffer | Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| Conjugation | FITC |

GENE INFORMATION

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|------------------------|-------|
| Gene Name | CD276 |
| Official Symbol | CD276 |

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| Synonyms | CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3 |
| Gene ID | 80381 |
| mRNA Refseq | NM_001024736 |
| Protein Refseq | NP_001019907 |
| MIM | 605715 |
| UniProt ID | Q5ZPR3 |

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