Datasheet for ABIN6731299

# ICOS Protein (AA 21-141) (His tag,AVI tag,Biotin)

2 Images

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## Overview

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| Quantity: | 200 µg |
| Target: | ICOS |
| Protein Characteristics: | AA 21-141 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This ICOS protein is labelled with His tag,AVI tag,Biotin. |

## Product Details

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| Sequence: | AA 21-141 |
| Specificity: | Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. |
| Purity: | >90 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | ICOS |
| Alternative Name: | ICOS (ICOS Products) |
| Background: | Inducible T-cell costimulator (ICOS) is also known as Activation-inducible lymphocyte |

## Target Details

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| | immunomediatory molecule (AILIM), CD278, which belongs to the CD28 family of immune costimulatory receptors consisting of CD28, CTLA-4 and PD-1. ICOS enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells. CD278 / ICOS prevents the apoptosis of pre-activated T-cells and also plays a critical role in CD40-mediated class switching of immunoglobin isotypes. |
| Molecular Weight: | 17.4 kDa |
| Pathways: | Cancer Immune Checkpoints |

## Application Details

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| Comment: | Ready-to-use AvitagTM biotinylated protein:<br>The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.<br><br>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled. |
| Restrictions: | For Research Use only |

## Handling

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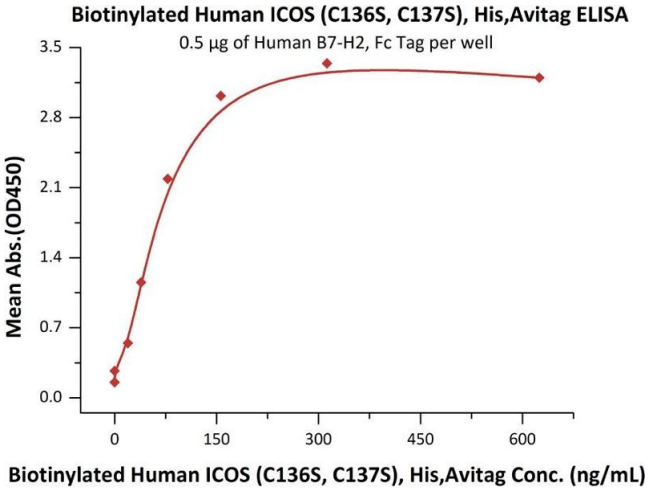
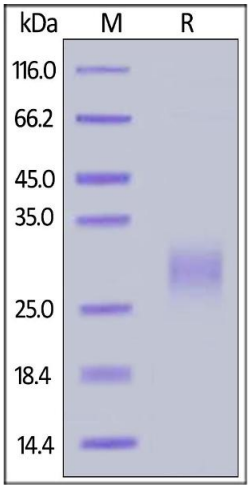
| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |




## ELISA

**Image 1.** Immobilized Human B7-H2, Fc Tag (ABIN6731298,ABIN6809944) at 5 μg/mL (100 μL/well) can bind Biotinylated Human ICOS (C136S, C137S), His,Avitag (recommended for biopanning) (ABIN6731299,ABIN6809943) with a linear range of 2-78 ng/mL (QC tested).




## SDS-PAGE

**Image 2.** Biotinylated Human ICOS (C136S, C137S), His,Avitag (recommended for biopanning) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .