Datasheet for ABIN7199213

ApoE2 Protein (His-Avi Tag,Biotin)

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Overview

Quantity:	200 µg
Target:	ApoE2 (apoe2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ApoE2 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human Apolipoprotein E / APOE2 Protein, His,Avitag™ (MALS verified)
Sequence:	Lys 19 - His 317
Characteristics:	Biotinylated Human APOE2, His,Avitag is expressed from human 293 cells (HEK293). It contains AA Lys 19 - His 317 (Accession # P02649-1 (R176C).
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	ApoE2 (apoe2)
Alternative Name:	Apolipoprotein E / APOE2 (apoe2 Products)
Background:	Synonyms: Apolipoprotein E,APOE,Apo-E,

Target Details

	Description: APOE is an apolipoprotein, a protein associating with lipid particles, that mainly functions in lipoprotein-mediated lipid transport between organs via the plasma and interstitial fluids. APOE is a core component of plasma lipoproteins and is involved in their production, conversion and clearance. Apoliproteins are amphipathic molecules that interact both with lipids of the lipoprotein particle core and the aqueous environment of the plasma. As such, APOE associates with chylomicrons, chylomicron remnants, very low density lipoproteins (VLDL) and intermediate density lipoproteins (IDL) but shows a preferential binding to high-density lipoproteins (HDL). It also binds a wide range of cellular receptors including the LDL receptor/LDLR, the LDL receptor-related proteins LRP1, LRP2 and LRP8 and the very low-density lipoprotein receptor/VLDLR that mediate the cellular uptake of the APOE-containing lipoprotein particles.
Molecular Weight:	37.8 kDa

Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 37.8 kDa. The protein migrates as 36-43 kDa under reducing (R) condition due to glycosylation.
Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ 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. 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

Format:	Lyophilized
Buffer:	PBS, 5 mM CHAPS, 2 mM DTT, pH 7.4

Handling

Storage:	-20 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower.

