

Datasheet for ABIN7092746

Malic Enzyme Complex, Mitochondrial (Mod2) (AA 72-113) protein (Fc Tag)



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1 Image

Overview

Quantity:	100 µg
Target:	Malic Enzyme Complex, Mitochondrial (Mod2)
Protein Characteristics:	AA 72-113
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	Fc Tag

Product Details

Purpose:	Recombinant Human MDR-1 with C-terminal human Fc tag
Specificity:	MDR-1 (Phe72-Arg113) (Lys213-Thr215) (Thr318-Gln330) (Gly960-Asp973) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Malic Enzyme Complex, Mitochondrial (Mod2)
Alternative Name:	MDR-1 (Mod2 Products)
Background:	The membrane-associated protein encoded by this gene is a member of the superfamily of

Target Details

ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Molecular Weight: predicted molecular mass of 34.2 kDa after removal of the signal peptide. The apparent molecular mass of MDR-1-hFc is 25-55 kDa due to glycosylation.

UniProt: [P08183](#)

Application Details

Restrictions: For Research Use only

Handling

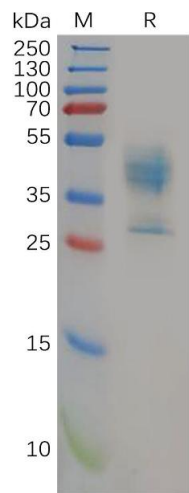
Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months



SDS-PAGE

Image 1. Human MDR-1 Protein, hFc Tag on SDS-PAGE under reducing condition.