APOA1BP Protein, Human (HEK293, His)

Cat. No.:	HY-P76155
Synonyms:	NAD(P)H-hydrate epimerase; Apolipoprotein A-I-binding protein; AI-BP; YJEFN1; NAXE; AIBP
Species:	Human
Source:	HEK293
Accession:	Q8NCW5 (M1-Q288)
Gene ID:	128240
Molecular Weight:	Approximately 30.6 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	APOA1BP, also known as NAXE (NAD(P)HX epimerase), catalyzes the epimerization of the S- and R-forms of NAD(P)HX, a damaged form of NAD(P)H resulting from enzymatic or heat-dependent hydration. This epimerization process is a prerequisite for the subsequent repair by the S-specific NAD(P)H-hydrate dehydratase, allowing the restoration of both epimers of NAD(P)HX. Beyond its role in nucleotide metabolism, APOA1BP plays a role in cholesterol homeostasis by accelerating cholesterol efflux from endothelial cells to high-density lipoprotein (HDL). This function suggests a regulatory role for APOA1BP in angiogenesis, linking its enzymatic activity to processes involved in blood vessel formation. It has to underscore APOA1BP's dual functions in nucleotide metabolism and cholesterol homeostasis, emphasizing its potential impact on cellular processes associated with angiogenesis.

Caution: Product has not been fully validated for medical applications. For research use only.

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