

Product Data Sheet

ADH1B Protein, Human (His-SUMO)

Cat. No.:	HY-P72071
Synonyms:	ADH beta subunit; ADH1B; ADH1B_HUMAN; ADH2; Alcohol dehydrogenase 1B; alcohol dehydrogenase 2 class I; ; beta polypeptide; Alcohol dehydrogenase 2; Alcohol dehydrogenase subunit beta; Aldehyde reductase; DKFZp686C06125; OTTHUMP00000220192
Species:	Human
Source:	E. coli
Accession:	P00325 (S2-F375)
Gene ID:	125
Molecular Weight:	Approximately 55.7 kDa

PROPERTIES

AA Sequence					
	STAGKVIKCK	AAVLWEVKKP	FSIEDVEVAP	PKAYEVRIKM	
	VAVGICRTDD	HVVSGNLVTP	LPVILGHEAA	GIVESVGEGV	
	ТТVКРGDKVI	PLFTPQCGKC	RVCKNPESNY	CLKNDLGNPR	
	GTLQDGTRRF	TCRGKPIHHF	LGTSTFSQYT	VVDENAVAKI	
	DAASPLEKVC	LIGCGFSTGY	G S A V N V A K V T	PGSTCAVFGL	
	GGVGLSAVMG	CKAAGAARII	AVDINKDKFA	KAKELGATEC	
	ΙΝΡQDΥΚΚΡΙ	QEVLKEMTDG	GVDFSFEVIG	RLDTMMASLL	
	ССНЕАССТЅѴ	IVGVPPASQN	LSINPMLLLT	G R T W K G A V Y G	
	GFKSKEGIPK	LVADFMAKKF	SLDALITHVL	PFEKINEGFD	
	LLHSGKSIRT	VLTF			
	T I			<i>(</i> , , , , , , , , , , , , , , , , , , ,	
Biological Activity	The enzyme activity of thi	s recombinant protein is tes	ting in progress, we cannot	offer a guarantee yet.	
Anno 200	I ventilized newdor				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from 2.0.2 um	storilo filtorod DRS 60% Trob	aaloso pH74		
Formulation	Lyophilized from a 0.2 µff	rsterne intereu PDS, 6% rrei	1alose, pri 7.4		
Endotoxin Level	<1 EU/ug datarminad by	I AL mothod			
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to	reconstitute to a concentral	tion less than 100 ug/mL in a		
Reconstitution	it is not recommended to	reconstitute to a concentrat	tion less than 100 µg/me me	101120.	
Storage & Stability	Stored at -20°C for 2 years	After reconstitution it is st	able at 4°C for 1 week or -20	°C for longer (with carrier protein). It is	
storage a stashity	recommended to freeze a	liquots at -20°C or -80°C for	evtended storage	e for tonger (with earlier protein). It is	
			extended storage.		
Shinning	Room temperature in con	tinental US·may yary elsewit	here		
	Room temperature in con	timental 00, may vary ciscin			

DESCRIPTION

Background	The ADH1B (Alcohol Dehydrogenase 1B (class I), β Polypeptide) gene and its best-known functional alleles, Arg48His (rs1229984, ADH1B*2) and Arg370Cys (rs2066702, ADH1B*3), have been investigated in relation to many phenotypic traits; most frequently including alcohol metabolism and alcohol drinking behaviors, but also human evolution, liver function, cancer and recently the comprehensive human phenome. ADH1B is reported to be involved in the metabolic pathways
	of many compounds besides ethanol, including fatty acids, acetone, epinephrine, glucose, retinol, tyrosine, tryptophan, ifosfamide, cyclophosphamide, abacavir, and celecoxib; and notably, neurotransmitters serotonin and norepinephrine ^[1]

REFERENCES

[1]. Renato Polimanti, et al. ADH1B: From alcoholism, natural selection, and cancer to the human phenome. Am J Med Genet B Neuropsychiatr Genet. 2018 Mar;177(2):113-125.

[2]. Liza D Morales, et al. Further evidence supporting a potential role for ADH1B in obesity. Sci Rep. 2021 Jan 21;11(1):1932.

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

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