

Product Data Sheet

Enoyl-ACP Reductase Protein, E. coli (His)

Cat. No.:	HY-P75252
Synonyms:	b1288 Protein; ECK1283 Protein; envM Protein; gts Protein; JW1281 Protein; qmeA Protein
Species:	E.coli
Source:	E. coli
Accession:	WP_000506490 (G2-K262)
Gene ID:	/
Molecular Weight:	Approximately 30 kDa

DDODEDTIES	A			
ROPERTIES				
Sequence	GFLSGKRILV	ΤGV	ASKLSIA	ASKLSIA YGIAQAMHRE
	DKLKGRVEEF	ΑΑQ	LGSDIVL	LGSDIVL QCDVAEDASI
	WPKFDGFVHS	IGF/	4 P G D Q L D	A P G D Q L D G D Y V N A V T R E
	Y S F V A M A K A C	RSML	NPGSAL	N P G S A L L T L S Y L G A E R
	AKASLEANVR	ΥΜΑΝΑ	A M G P E G	AMGPEG VRVNAISAGP
	DFRKMLAHCE	ΑΥΤΡΙ	RRTVT	RRTVT IEDVGNSAAF
	GEVVHVDGGF	SIAAMN	IELEL	NELEL K
Biological Activity	Enzymatic activity is dete	ermined by followir	ng NADH c	ng NADH consumption. The specific ac
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.			
ndotoxin Level	<1 Ell/ug determined by LAL method			
	· 1 Εθ/μg, determined by	EAE method.		
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is			
	recommended to add a c	arrier protein (0.1% B	SA, 5%	SA, 5% HSA, 10% FBS or 5% Trehald
Storage & Stability	Stored at -20°C for 2 year	s After reconstitution	it is st	it is stable at 4°C for 1 week or -20
otoruge a otability	recommended to freeze a	aliquots at -20°C or -80°C	for	for extended storage.
				Ŭ
Shipping	Room temperature in cor	ntinental US; may vary elsev	N	where.

DESCRIPTION

Background

Enoyl-ACP Reductase is a member of the Short chain Dehydrogenase Reductase (SDR) superfamily and thus are closely related to the other SDR enzyme of the fatty acid synthesis cycle, 3-ketoacyl-ACP reductase, in both structure and mechanism. Enoyl-ACP Reductase is a key enzyme of the type II fatty acid synthesis (FAS) system. Fatty acid biosynthesis is

essential for survival in mammals, plants, fungi and bacteria (the archaea make isoprenoid-based lipids). Enoyl-ACP Reductase catalyzes the reduction of a carbon-carbon double bond in an enoyl moiety that is covalently linked to an acyl carrier protein (ACP). And it is involved in the elongation cycle of fatty acid which are used in the lipid metabolism and in the biotin biosynthesis^{[1][2]}.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA