Product Data Sheet

Product Name:	MECR Human
Cat. No.:	GP21912
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NRBF1; CGI-63; FASN2B; EC 1.3.1.38; MECR; Mitochondrial Trans-2-Enoyl-CoA Reductase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPAKVVELKN LELAAVRGSD VRVKMLAAPI NPSDINMIQG NYGLLPELPA VGGNEGVAQV VAVGSNVTGL KPGDWVIPAN AGLGTWRTEA VFSEEALIQV PSDIPLQSAA TLGVNPCTAY RMLMDFEQLQ PGDSVIQNAS NSGVGQAVIQ IAAALGLRTI NVVRDRPDIQ KLSDRLKSLG AEHVITEEEL RRPEMKNFFK DMPQPRLALN CVGGKSSTEL LRQLARGGTM VTYGGMAKQP VVASVSLLIF KDLKLRGFWL SQWKKDHSPD QFKELILTLC DLIRRGQLTA PACSQVPLQD YQSALEASMK PFISSKQILT M.		
Formulation	MECR Human solution containing 20mM Trsi pH-8, 0.2M NaCl, 5mM DTT & 20% glycerol.		

Introduction

MECR catalyzes the reduction of trans-2-enoyl-CoA to acyl-CoA with chain length from C6 to C16 in an NADPH dependent manner with preference to medium chain length substrate. MECR protein takes part in the mitochondrial synthesis of fatty acids.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

MECR Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 341 amino acids (54-373 a.a.) and having a molecular mass of 49.8 kDa. The MECR is fused to 21 amino acid His-Tag at N-terminus and purified by

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proprietary chromatographic techniques.