Hydroxyacid-Oxoacid Transhydrogenase, Mitochondrial (ADHFE1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Hydroxyacid-oxoacid transhydrogenase, mitochondrial (ADHFE1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Hydroxyacid-oxoacid transhydrogenase, mitochondrial (ADHFE1), partial
Product Gene Name	ADHFE1 recombinant protein
Product Synonym Gene Name	ADHFE1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	45,065 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5RF11
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADHFE1 recombinant protein	MBS1332310 is a recombinant protein targeting ADHFE1. Also known as Recombinant Pongo abelii Hydroxyacid-oxoacid transhydrogenase, mitochondrial (ADHFE1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ADHFE1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADHFE1. It may not necessarily be applicable to this product.

NCBI GI #	197102450
NCBI GeneID	100174480
NCBI Accession #	NP_001127410.1
UniProt Primary Accession #	Q5RF11
UniProt Secondary Accession #	Q5R5E1; Q5RA35
UniProt Related Accession #	Q5RF11
GenBank Nucleotide #	NM_001133938.1

NCBI Official Full Name	hydroxyacid-oxoacid transhydrogenase, mitochondrial
NCBI Official Symbol	ADHFE1
UniProt Protein Name	Hydroxyacid-oxoacid transhydrogenase, mitochondrial
UniProt Synonym Protein Names	Alcohol dehydrogenase iron-containing protein 1; ADHFe1
Protein Family	Hydroxyacid-oxoacid transhydrogenase
UniProt Gene Name	ADHFE1
UniProt Synonym Gene Names	HOT; ADHFe1
NCBI Protein Information	hydroxyacid-oxoacid transhydrogenase, mitochondrial
UniProt Comments for ADHFE1	Catalyzes the cofactor-independent reversible oxidation of gamma-hydroxybutyrate (GHB) to succinic semialdehyde (SSA) coupled to reduction of 2-ketoglutarate (2-KG) to D-2-hydroxyglutarate (D-2-HG). L-3-hydroxybutyrate (L-3-OHB) is also a substrate for HOT when using 2-KG as hydrogen acceptor, resulting in the formation of D-2-HG ().
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