

Product datasheet for **TP310586M**

BDH2 (NM_020139) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 3-hydroxybutyrate dehydrogenase, type 2 (BDH2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210586 protein sequence Red =Cloning site Green =Tags(s)

MGRLDGGKVIILTAAAQGIGQAAAALAFAREGAKVIATDINESKLQELEKYPGIQTRVLDVTKKKQIDQFAN
EVERLDVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSMYLMIKAFLPKMLAQSGNIINMSSVASSVKG
VWNCVYSTTKAAVIGLTKSVAADFIQQGIRCNCVCPGTVDTPSLQERIQARGNPEEARNDLKRQKTGR
FATAEEIAMLCVYLASDESTYVTGNPVIIDGGWSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	26.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_064524
Locus ID:	56898
UniProt ID:	Q9BUT1



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RefSeq Size: 2936

Cytogenetics: 4q24

RefSeq ORF: 735

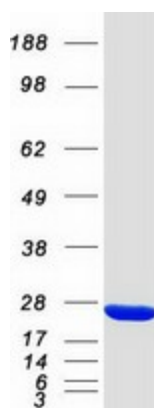
Synonyms: DHRS6; EFA6R; PRO20933; SDR15C1; UCPA-OR; UNQ6308

Summary: Dehydrogenase that mediates the formation of 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin and associates with LCN2, thereby playing a key role in iron assimilation and homeostasis. Plays a role in susceptibility to bacterial infection by providing an assimilable source of iron that is exploited by pathogenic bacteria (By similarity). Also acts as a 3-hydroxybutyrate dehydrogenase (PubMed:16380372).[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Protein Pathways: Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies

Product images:



Coomassie blue staining of purified BDH2 protein (Cat# [TP310586]). The protein was produced from HEK293T cells transfected with BDH2 cDNA clone (Cat# [RC210586]) using MegaTran 2.0 (Cat# [TT210002]).