

Product datasheet for TP503075

Bdh2 (NM_027208) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse 3-hydroxybutyrate dehydrogenase, type 2 (Bdh2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203075 protein sequence Red =Cloning site Green =Tags(s)

MGRLDGKVVILTAAAQGIGRASALAFAREGAKVIATDINESKLQELESYRGIQTRVLDVTKKRQIDQFAS
EIERIDVLFNVAGFVHHGTILDCEEKDWDFSMNLNVRSMFLMIKAFLPKMLAQKSGNIINMSSVASSIKG
VENRCVYSATKAAVIGLTKSVAADFIQQGIRCNCVCPGTVDTPSLQERIQARDNPKEALKTFLNRQKTGR
FASAEVALLCVYLASDESAYVTGNPVIIDGGWSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	26.8 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
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 after receiving vials.
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_081484
Locus ID:	69772
UniProt ID:	Q8JZV9
RefSeq Size:	1099



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Cytogenetics: 3 G3

RefSeq ORF: 735

Synonyms: 1810026B04Rik; Dhrr6

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 (PubMed:20550936, PubMed:24863067). Plays a role in susceptibility to bacterial infection by providing an assimilable source of iron that is exploited by pathogenic bacteria (PubMed:24863067). Also acts as a 3-hydroxybutyrate dehydrogenase (By similarity).[UniProtKB/Swiss-Prot Function]