

## Product datasheet for PH310586

### BDH2 (NM\_020139) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	BDH2 MS Standard C13 and N15-labeled recombinant protein (NP_064524)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210586
Predicted MW:	26.8 kDa
Protein Sequence:	>RC210586 protein sequence Red=Cloning site Green=Tags(s)  MGRLDGKVIILTAAAQIGQAAALAFAREGAKVIATDINESKLQELEKYPGIQTRVLDVTKKKQIDQFAN EVERLDVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSMYLMIKAFLPKMLAQKSGNIINMSSVASSVKG VYNRCVYSTTKAAVIGLTKSVAADFIIQQGIRCNCVCPGTVDTPSLQERIQARGNPEEARNDFLKRQKTGR FATAEEIAMLCVYLASDESTYVTGNPVIIDGGWSL  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_064524</a>
RefSeq Size:	2936
RefSeq ORF:	735
Synonyms:	DHRS6; EFA6R; PRO20933; SDR15C1; UCPA-OR; UNQ6308
Locus ID:	56898
UniProt ID:	<a href="#">Q9BUT1</a>



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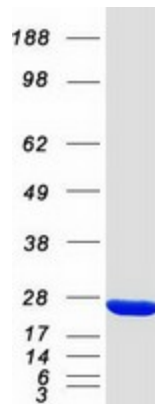
**Cytogenetics:** 4q24

**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]).