Recombinant Human DHDH, His-tagged

Cat. No. DHDH-11965H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DHDH protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-334a.a.
Description	This gene encodes an enzyme that belongs to the family of dihydrodiol dehydrogenases, which exist in multiple forms in mammalian tissues and are involved in the metabolism of xenobiotics and sugars. These enzymes catalyze the NADP1-linked oxidation of transdihydrodiols of aromatic hydrocarbons to corresponding catechols. This enzyme is a dimeric dihydrodiol dehydrogenase, and it differs from monomeric dihydrodiol dehydrogenases in its high substrate specificity for trans-dihydrodiols of aromatic hydrocarbons in the oxidative direction.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	DHDH dihydrodiol dehydrogenase (dimeric) [Homo sapiens]
Official Symbol	DHDH
Synonyms	DHDH; dihydrodiol dehydrogenase (dimeric); trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; HUM2DD; D-xylose 1-dehydrogenase; 3-deoxyglucosone reductase; D-xylose-NADP dehydrogenase; 2DD;
Gene ID	27294
mRNA Refseq	NM_014475
Protein Refseq	NP_055290
MIM	606377
UniProt ID	Q9UQ10
Chromosome Location	19q13.3
Pathway	Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem; Pentose and glucuronate interconversions, organism-specific biosystem; Pentose and glucuronate interconversions, conserved biosystem;
Function	D-xylose 1-dehydrogenase (NADP+) activity; NAD(P)+ transhydrogenase activity; electron carrier activity; nucleotide binding; oxidoreductase activity; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase activity;

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