REACTION BIOLOGY

PRODUCT DATASHEET

IDH1-G97D (His)

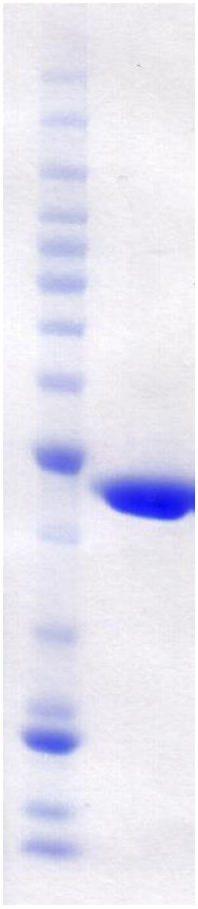
CATALOG NO.: IDH-11-325 **LOT NO.:**

DESCRIPTION: Mutant human recombinant IDH1 with aspartic acid (D) substituted for glycine (G97) (otherwise contains wild-type residues 2-414; Genbank Accession # NM_005896.3; MW = 47.8 kDa) expressed with a C-terminal His-tag in *E. coli*.

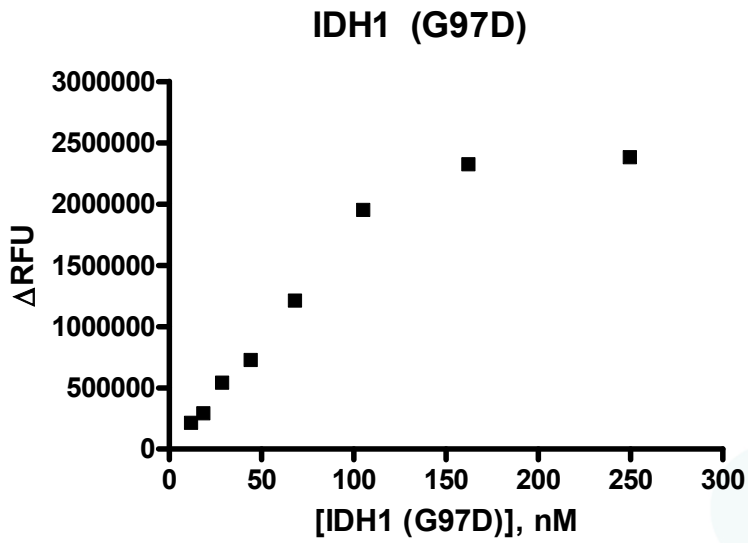
PURITY: >95% by SDS-PAGE

SUPPLIED AS: ___ µg/µL in 50 mM Tris HCl, pH 7.5, 500 mM NaCl, 1 mM TCEP, 10% glycerol as determined by OD_{280}.

STORAGE: -70°C. Thaw quickly and store on ice before use. The remaining, unused, undiluted protein should be snap frozen, for example in a dry ice ethanol bath or liquid nitrogen. Minimize freeze/thaws if possible, but very low volume aliquots (<5 µl) or storage of diluted enzyme is not recommended.



Coomassie blue-stained SDS-PAGE (12% acrylamide) of 4µg of RBC IDH1-G97D (His). MW markers (left) are, from top, 220, 160, 120, 100, 90, 80, 70, 60, **50**, 40, 30, 25, **20**, 15, 10 kDa.



IDH1 G97D Activity Assay. NADPH-dependent reduction of α-ketoglutarate was determined by quantification of remaining NADPH using diaphorase/resazurin detection. The 30 µL reaction contained 15 µM NADPH, 2 mM α-KG and a variable amount of IDH1-G97D. After incubation at room temperature for 60 minutes, the reaction was quenched by the addition of diaphorase and resazurin (15 µg/ml and 30 µM respectively). The resulting fluorescence (ex. 535nm/em. 590nm) was measured using an Envison Reader (Perkin Elmer). An increase in ΔRFU represents oxidation of NADPH.

This product is not intended for therapeutic or diagnostic use in animals or in humans.

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