

## Recombinant Human IDH1(G97D) Protein, His-tagged

Cat. No. IDH1-108H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human IDH1(G97D) protein, fused with C-terminal His tag, was expressed in E.coli.         |
| Species          | Human                                                                                                 |
| Source           | E.coli                                                                                                |
| ProteinLength    | 1-414                                                                                                 |
| Form             | 50 mM Tris HCl, pH 7.5, 500 mM NaCl, 1 mM TCEP, 10% glycerol                                          |
| Molecular Mass   | 47.8 kDa                                                                                              |
| Purity           | >95% by SDS-PAGE                                                                                      |
| Storage          | Store at -80°C. Thaw quickly and store on ice before use. Avoid repeated freezing and thawing cycles. |

### GENE INFORMATION

|                 |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| Gene Name       | IDH1 isocitrate dehydrogenase 1 (NADP+), soluble [ Homo sapiens ]           |
| Official Symbol | IDH1                                                                        |
| Synonyms        | IDH1; isocitrate dehydrogenase 1 (NADP+), soluble; isocitrate dehydrogenase |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | [NADP] cytoplasmic; NADP(+)-specific ICDH; oxalosuccinate decarboxylase; NADP-dependent isocitrate dehydrogenase, cytosolic; NADP-dependent isocitrate dehydrogenase, peroxisomal; IDH; IDP; IDCD; IDPC; PICD;                                                                                                                                              |
| <b>Gene ID</b>             | <a href="#">3417</a>                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | <a href="#">NM_005896</a>                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | <a href="#">NP_005887</a>                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | <a href="#">147700</a>                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | <a href="#">O75874</a>                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 2q32-qter                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, first carbon oxidation, oxaloacetate =>2-oxoglutarate, organism-specific biosystem; Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate, conserved biosystem; Glutathione metabolism, organism-specific biosystem; |
| <b>Function</b>            | NAD binding; isocitrate dehydrogenase (NADP+) activity; isocitrate dehydrogenase (NADP+) activity; magnesium ion binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; protein homodimerization activity;                                                                                |