

## Recombinant Human GLUD1 Protein (S54-T558), Tag Free

Cat. No. GLUD1-0691H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human huGLUD1(S54-T558end) Protein was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                              |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                |
| ProteinLength    | S54-T558                                                                                                                                                                                                                                                                                                                                                                                                              |
| Description      | Mitochondrial glutamate dehydrogenase that catalyzes the conversion of L-glutamate into alpha-ketoglutarate. Plays a key role in glutamine anaplerosis by producing alpha-ketoglutarate, an important intermediate in the tricarboxylic acid cycle. Plays a role in insulin homeostasis (). May be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate. |
| Form             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                |
| Endotoxin        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Stability        | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                                                                                                                                                                                                                                                                             |
| Storage          | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                   |

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**Storage Buffer** 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol

**Shipping** It is shipped out with blue ice.

## GENE INFORMATION

**Gene Name** [GLUD1 glutamate dehydrogenase 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [GLUD1](#)

**Synonyms** GLUD1; glutamate dehydrogenase 1; GLUD; glutamate dehydrogenase 1, mitochondrial; GDH; GDH 1; glutamate dehydrogenase (NAD(P)+); GDH1; MGC132003;

**Gene ID** [2746](#)

**mRNA Refseq** [NM\\_005271](#)

**Protein Refseq** [NP\\_005262](#)

**MIM** [138130](#)

**UniProt ID** [P00367](#)

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