

Recombinant Human GLUD2, His-tagged

Cat. No. GLUD2-27654TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 229-541 of Human GLUD2 with N terminal His tag; 313 amino acids, 36kDa.
Species	Human
Source	E.coli
ProteinLength	229-541 a.a.
Description	The protein encoded by this gene is localized to the mitochondrion and acts as a homo-hexamer to recycle glutamate during neurotransmission. The encoded enzyme catalyzes the reversible oxidative deamination of glutamate to alpha-ketoglutarate. This gene is intronless.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 89 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.
Sequences of amino acids	GEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGR ISATGRGVFHGIENFINE ASYMSILGMTPGFRDKTFVV QGFGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPD

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GIDPK ELEDFKLQHGSILGFPKAKPYEGSILEVDCDILIPAAT EKQLTKSNAPRVKAKI
 IAEGANGPTTPEADKIFLERNI LVIPDLYLNAGGVTVSYFEWLKLNHVSYGRLTFKY
 ERDS NYHLLLSVQESLERKFGKHGGTIPIVPTAEFQDSISGA SEKDIVHSALAYTME
 RSARQIMHTAMKYNLGLDLRТАAYVN

GENE INFORMATION

Gene Name [GLUD2 glutamate dehydrogenase 2 \[Homo sapiens \]](#)

Official Symbol [GLUD2](#)

Synonyms [GLUD2](#); glutamate dehydrogenase 2; [GLUDP1](#), glutamate dehydrogenase pseudogene 1; glutamate dehydrogenase 2, mitochondrial;

Gene ID [2747](#)

mRNA Refseq [NM_012084](#)

Protein Refseq [NP_036216](#)

MIM [300144](#)

Uniprot ID [P49448](#)

Chromosome Location Xq24-q25

Pathway Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; D-Glutamine and D-glutamate metabolism, organism-specific

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biosystem;

Function

ADP binding; GTP binding; glutamate dehydrogenase (NAD+) activity; glutamate dehydrogenase [NAD(P)+] activity; leucine binding;

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