

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 homohexamer 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: NoneConstituents: 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 ELED FKLQHG SILGF PKAKPYEGSILEVDCILIPAAT EKQLTKSNAPRVKAKI
 IAEGANGPTTPEADKIFLERNI LVIPDLYLNAGGVTVSYFEWLKLNHVS YGRLTFKY
 ERDS NYHLLLSVQESLERKFGKHGGTIPIVPTAEFQDSISGA SEKDIVHSALAYTME
 RSARQIMHTAMKYNLGLDLRTAAYVN

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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