

Recombinant Human GLUD2, GST-tagged

Cat. No. GLUD2-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLUD2(1 a.a. - 558 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	87.8 kDa
AA Sequence	MYRYLAKALLPSRAGPAALGSAANHSAALLGRGRGQPAAASQPGLALAARRHYSEL VADREDDPNFFKMVEGFFD RGASIVEDKLVKDLRTQESEEQKRNRVRGILRIIKPCN HVLSSLSPPIRRDDGSWEVIEGYRAQHSQHRTPCGGI RYSTDVSVDEVKALASLMT YKCAVVDVPFGGAKAGVKINPKNYTENELEKITRRFTMELAKKGFIPGVDVPAPD MNTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHDRISATGRGVFHGIENF INEASYMSILGMTPGFR DKTFVVQGFGNVGLHSMRYLHRFGAKCIAVGESDGSIWN PDGIDPKELEDFKLQHGSILGFPAKAPYEGSILEVD CDILIPAATEKQLTKSNAPRVKA KIIAEGANGPTTPEADKIFLERNILVIPDLYNAGGVTVSYFEWLKLNHVS YGRLTFK YERDSNYHLLSVQESLERKFGKHGGTIPIVPTAEFQDSISGASEKDIVHSALAYTME RSARQIMHTA MKYNLGLDLRTAAYVNAIEKVFKVYSEAGVTFT

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Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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	Proximal tubule bicarbonate reclamation; arginine biosynthesis IV; glutamate biosynthesis II
Function	ADP binding; glutamate dehydrogenase (NAD ⁺) activity; glutamate dehydrogenase

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[NAD(P)+] activity

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