

## Recombinant Human GLUD2, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GLUD2(1 a.a. - 558 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	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.
<b>Molecular Mass</b>	87.8 kDa
<b>AA Sequence</b>	<p>MYRYLAKALLPSRAGPAALGSAANHSAALLGRGRGQPAAASQPGLALAARRHYSEL  VADREDDPNFFKMVEGFFD RGASIVEDKLVKDLRTQESEEQKRNRVRGILRIIKPCN  HVL SLSFPIRRDDGSWEVIEGYRAQHSQHRTPCGGI RYSTDVSVDEVKALASLMT  YKCAVVDVPPGGAKAGVKINPKNYTENELEKITRRFTMELAKKGFIPGVDVPAPD  MNTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHRISATGRGVFHGIENF  INEASYMSILGMTPGFR DKTFVVQGFVGLHSMRYLHRFGAKCIAVGESDGSIWV  PDGIDPKELEDFKLQHGSI LGFPKAKPYEGSILEVD CDILIPAATEKQLTKSNAPRVKA  KIIAEGANGPTTPEADKIFLERNILVIPDLYLNAGGVTVSYFEWLKLNHVS YGRLTFK  YERDSNYHLLLSVQESLERKFGKHGGTIPIVPTAEFQDSISGASEKDIVHSALAYTME  RSARQIMHTA MKYNLGLDLR TAAYVNAIEKVFKVYSEAGVTFT</p>

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<b>Applications</b>	ELISA; WB-Re; AP; Array
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GLUD2 glutamate dehydrogenase 2 [ Homo sapiens ]
<b>Official Symbol</b>	GLUD2
<b>Synonyms</b>	GLUD2; glutamate dehydrogenase 2; GLUDP1, glutamate dehydrogenase pseudogene 1; glutamate dehydrogenase 2, mitochondrial
<b>Gene ID</b>	2747
<b>mRNA Refseq</b>	NM_012084
<b>Protein Refseq</b>	NP_036216
<b>MIM</b>	300144
<b>UniProt ID</b>	P49448
<b>Chromosome Location</b>	Xq24-q25
<b>Pathway</b>	Proximal tubule bicarbonate reclamation; arginine biosynthesis IV; glutamate biosynthesis II
<b>Function</b>	ADP binding; glutamate dehydrogenase (NAD+) activity; glutamate dehydrogenase

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[NAD(P)+] activity

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