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GLUD1, 54-558aa, Human, His tag, E.coli

产品货号: TP02263

第三版

别名: Glutamate dehydrogenase 1, mitochondrial, GDH, GDH1, GLUD

描述: Glutamate dehydrogenase 1, mitochondrial precursor, also known as GLUD1, belongs to the Glu/Leu/Phe/Val dehydrogenases family. GLUD1 has a central role in nitrogen metabolism in plants and animals. GLUD1 is found in all organisms and catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate. Mutations in the gene encoding GLUD1 causes hyperinsulinism-hyperammonemia syndrome (HHS), which is an inherited condition characterized by high insulin and ammonia levels in the blood. GLUD1 may also be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate. Recombinant human GLUD1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

配方: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

分子量: 58.4 kDa (528aa)

序列:

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MGSSHHHHHSSGLVPRGSHMGSEAVADREDDPNFFKMVEGFFDRGASIVEDKLVEDLRTRESEEQKRNRVIRGILRIIK  
PCNHVLSLSFPIRRDDGSGWEVIEGYRAQHSQHRTPCCKGGIRYSTDVSVDEVKALASLMTYKCAVVDVPFGGAKAGVKINP  
KNYTDNELEKITRRFTMELAKKGFIPGIDVPAPDMSTGEREMSWIADTYASTIGHYDINAHACVTGKPIQQGGIHRISA  
TGRGVFHGIENFINEASYMSILGMPGFGDKTFVVGFGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDPGIDPKELEDF  
KLQHGSI LGFPKAKPYEGSILEADCILIPAASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLERNIMVIPDLYLNAGGV  
TVSYFEWLKLNHVSYGRLTFKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPTAEFQDRISGASEKDIVHSGLAYTMERS  
ARQIMRTAMKYNLGLDLRTAAYVNAIEKVFVKVYNEAGVTFT
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纯度: > 95% by HPLC

浓度: 1mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.