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Lieferung & Zahlungsart

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Zuschläge

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GLUD1 (h2): 293T Lysate: sc-115824

BACKGROUND

GLUD1 (glutamate dehydrogenase 1), also known as GDH, GDH1 or GLUD, is a 558 amino acid mitochondrial matrix enzyme belonging to the Glu/Leu/Phe/Val dehydrogenases family. Existing as a homohexamer, GLUD1 catalyzes the oxidative deamination of glutamate to α -ketoglutarate and ammonia. GLUD1 is critical for regulating amino acid-induced Insulin secretion and is allosterically activated by ADP and inhibited by GTP and ATP. 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GLUD1 (human) mapping to 10q23.2.

PRODUCT

GLUD1 (h2): 293T Lysate represents a lysate of human GLUD1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

GLUD1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive GLUD1 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.