SANTA CRUZ BIOTECHNOLOGY, INC.

Glutathione (D8): sc-52399

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

One of the important roles of glutamine, the most abundant amino acid in the body, is as a precursor for Glutathione. Glutathione is one of several thiol-containing compounds which have an essential role in many biochemical reactions, due to their ability to be easily oxidized and then quickly regenerated. Glutathione is a free radical scavenger, which makes it a biomarker of protective oxidative injury. Oxidized Glutathione is reduced by the enzyme Glutathione reductase. The main function of Glutathione reductase is to maintain high levels of reduced Glutathione within the cell, resulting in low levels of oxidative stress.

REFERENCES

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4. Avenell, A. 2006. Glutamine in critical care: current evidence from systematic reviews. Proc. Nutr. Soc. 65: 236-241.
5. Glantzounis, G.K., et al. 2006. The role of thiols in liver ischemia-reperfusion injury. Curr. Pharm. Des. 12: 2891-2901.
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7. Burdo, J. 2006. Distribution of the cystine/glutamate antiporter system x^-_c in the brain, kidney, and duodenum. J. Histochem. Cytochem. 54: 549-557.
8. Westman, B., et al. 2006. Effects on skeletal muscle Glutathione status of ischemia and reperfusion following abdominal aortic aneurysm surgery. Ann. Vasc. Surg. 20: 99-105.

SOURCE

Glutathione (D8) is a mouse monoclonal antibody raised against Glutathione.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Glutathione (D8) is recommended for detection of Glutathione-protein complexes by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Molecular Weight of Glutathione: 0.3 Da.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SELECT PRODUCT CITATIONS

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7. Ranieri, M., et al. 2019. Green olive leaf extract (OLE) provides cytoprotection in renal cells exposed to low doses of cadmium. PLoS ONE 14: e0214159.
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RESEARCH USE

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