

Product datasheet

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ARG82767 Glutaminase Assay Kit (Colorimetric)

Package: 96 wells Store at: 4°C

Summary

Product Description ARG82767 Glutaminase Assay Kit (Colorimetric) is a detection kit for the quantification of Glutaminase

activity in cells, bacteria and tissue samples.

Tested Reactivity All

Tested Application FuncSt

Specificity The assay is initiated with the enzymatic hydrolysis of Glutamine by Glutaminase. The enzyme catalysed

reaction products can be measured at a colorimetric readout at 620 nm.

Target Name Glutaminase

Conjugation Note Read at 620 nm (colorimetric)

Detection Range $0.01 - 1 \mu mol/ml$

Sample Type Cells, bacteria and tissue samples.

Sample Volume 20 µl

Alternate Names EC 3.5.1.2; AAD20; L-glutamine amidohydrolase; KGA; Glutaminase kidney isoform, mitochondrial;

GAM; K-glutaminase; GLS; GAC; GLS1

Application Instructions

Assay Time ~ 1.5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol GLS

Gene Full Name glutaminase

Background This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-

activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Function Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in

maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate, the main excitatory neurotransmitter in the brain (PubMed:30575854, PubMed:30239721, PubMed:30970188).

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[Isoform 2]: Lacks catalytic activity. [UniProt]

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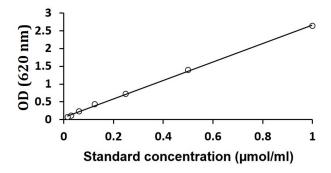
Glutaminase antibodies; Glutaminase ELISA Kits;

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TCA intermediate fumarate promotes mitobiogenesis

Cellular Localization Isoform 1: Cytoplasm, cytosol. Isoform 3: Mitochondrion. [UniProt]

Images



ARG82767 Glutaminase Assay Kit (Colorimetric) typical data demonstration image

ARG82767 Glutaminase Assay Kit (Colorimetric) results of a typical standard run with optical density reading at 620 nm, using colorimetric reading.