

ARG82119 Glutathione Reductase Assay Kit

Package: 100 tests
Store at: -20°C

Component

Cat. No.	Component Name	Package
ARG82119-001	Assay Buffer	10 ml
ARG82119-002	GDH	120 µl
ARG82119-003	Substrate	1 ml
ARG82119-004	DTNB	60 µl
ARG82119-005	Co-substrate	1 ml
ARG82119-006	Standard	1.5 ml

Summary

Product Description	ARG82119 Glutathione Reductase Assay Kit is a detection kit for the quantification of Glutathione Reductase activity in serum, plasma, tissue and cell culture supernatants.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Glutathione Reductase
Conjugation Note	Read at 412 nm.
Sensitivity	0.4 U/l
Detection Range	0.4 - 50 U/l
Sample Type	Serum, plasma, tissue and cell culture supernatants.
Sample Volume	20 µl
Alternate Names	GRase; HEL-75; EC 1.8.1.7; Glutathione reductase, mitochondrial; GR

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	30 min

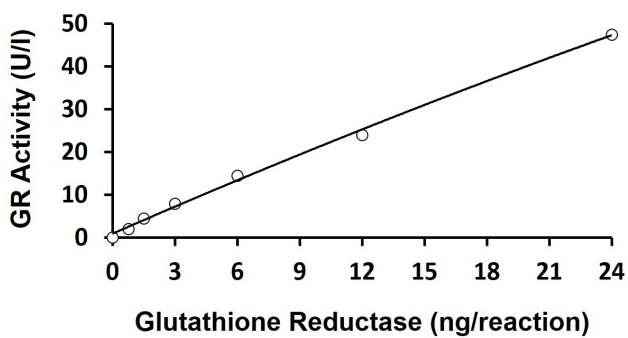
Properties

Form	Liquid
Storage instruction	Store the kit at -20°C. 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	GSR
Gene Full Name	glutathione reductase
Background	This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2010]
Function	Maintains high levels of reduced glutathione in the cytosol. [UniProt]
Cellular Localization	Isoform Mitochondrial: Mitochondrion. Isoform Cytoplasmic: Cytoplasm. [UniProt]

Images



ARG82119 Glutathione Reductase Assay Kit enzyme activity image

Glutathione Reductase Activity at 20 min, 25°C.