

ARG83367
NADP / NADPH Assay KitPackage: 100 assay
Store at: 4°C, -20°C, -80°C

Summary

Product Description	ARG83367 NADP / NADPH Assay Kit is a detection kit for the quantification of NAD / NADH in cell lysate and tissue lysate.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	NADP / NADPH
Conjugation	Un-conjugated
Conjugation Note	Read at 530-570 nm.
Sensitivity	0.4 nM
Sample Type	Cell lysate and Tissue lysate
Standard Range	0.78 - 100 nM
Sample Volume	50 µL

Application Instructions

Assay Time	~4 hours
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Properties

Form	Liquid
Storage instruction	Store components at 4°C, -20°C and -80°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

Background	Nicotinamide adenine dinucleotide phosphate, abbreviated NADP ⁺ is a cofactor used in anabolic reactions, such as the Calvin cycle and lipid and nucleic acid syntheses, which require NADPH as a reducing agent ('hydrogen source'). NADPH is the reduced form, whereas NADP ⁺ is the oxidized form. NADP ⁺ is used by all forms of cellular life.
Function	NADPH provides the reducing agents, usually hydrogen atoms, for biosynthetic reactions and the oxidation-reduction involved in protecting against the toxicity of reactive oxygen species (ROS), allowing the regeneration of glutathione (GSH). NADPH is also used for anabolic pathways, such as cholesterol synthesis, steroid synthesis, ascorbic acid synthesis, xylitol synthesis, cytosolic fatty acid synthesis and microsomal fatty acid chain elongation.