

ARG83368 Glycine Assay Kit

Package: 100 assay
Store at: -20°C, -80°C

Summary

Product Description	ARG83368 Glycine Assay Kit is an Assay kit for the quantification of Glycine in cell lysates, serum, plasma, saliva and urine.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Glycine
Conjugation	Un-conjugated
Conjugation Note	Read at 530-570 nm.
Sensitivity	1.0 µM
Sample Type	Cell lysates, Serum, Plasma, Saliva and Urine.
Standard Range	1.56 - 100 µM
Sample Volume	50 µL

Application Instructions

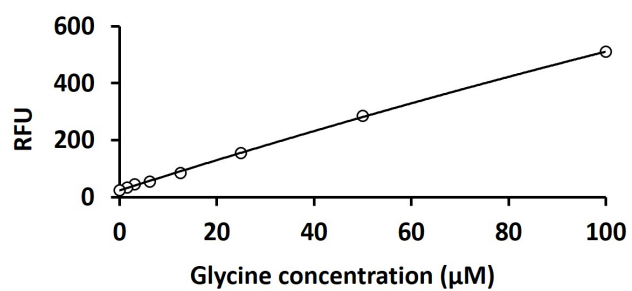
Assay Time	~1.5 hours
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Properties

Form	Liquid
Storage instruction	Store components at -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	Glycine is an amino acid that has a single hydrogen atom as its side chain. It is the simplest stable amino acid (carbamic acid is unstable), with the chemical formula $\text{NH}_2\text{-CH}_2\text{-COOH}$. Glycine is one of the proteinogenic amino acids. It is encoded by all the codons starting with GG (GGU, GGC, GGA, GGG). Glycine is integral to the formation of alpha-helices in secondary protein structure due to the "flexibility" caused by such a small R group. Glycine is also an inhibitory neurotransmitter – interference with its release within the spinal cord (such as during a Clostridium tetani infection) can cause spastic paralysis due to uninhibited muscle contraction.
Function	The principal function of glycine is it acts as a precursor to proteins. Most proteins incorporate only small quantities of glycine, a notable exception being collagen, which contains about 35% glycine due to its periodically repeated role in the formation of collagen's helix structure in conjunction with hydroxyproline. In the genetic code, glycine is coded by all codons starting with GG, namely GGU, GGC, GGA and GGG.
Research Area	Flavor enhancers, Glucogenic amino acids, Inhibitory amino acids, Proteinogenic amino acids, Glycine receptor agonists, NMDA receptor agonists, E-number additives



ARG83368 Glycine Assay Kit standard curve image

ARG83368 Glycine Assay Kit results of a typical standard run with optical density reading at 450 nm.