ARG83377
Methionine Assay Kit

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

Summary

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Product Description	ARG83377 Methionine Assay Kit is an Assay kit for the quantification of Methionine in Serum, Plasma, Saliva, Urine and Cell / Tissue lysates
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Methionine
Conjugation	Un-conjugated
Conjugation Note	Read at 590 nm.
Sensitivity	0.8 µM
Sample Type	Serum, Plasma, Saliva, Urine and Cell / Tissue lysates
Standard Range	1.5 - 100 µM
Sample Volume	50 µL

Application Instructions

Assay Time	~30 min

Properties

Form	Liquid
Storage instruction	Store components at -20°C, -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	As the precursor of other non-essential amino acids such as cysteine and taurine, versatile compounds such as SAM-e, and the important antioxidant glutathione, methionine plays a critical role in the metabolism and health of many species, including humans. Methionine is also involved in angiogenesis and various processes related to DNA transcription, epigenetic expression, and gene regulation.
Function	As an essential amino acid, methionine is not synthesized de novo in humans and other animals, which must ingest methionine or methionine-containing proteins. In plants and microorganisms, methionine biosynthesis belongs to the aspartate family, along with threonine and lysine . The main backbone is derived from aspartic acid, while the sulfur may come from cysteine, methanethiol, or hydrogen sulfide.
Research Area	Alpha-Amino acids, Proteinogenic amino acids, Glucogenic amino acids, Sulfur amino acids, Thioethers, Essential amino acids
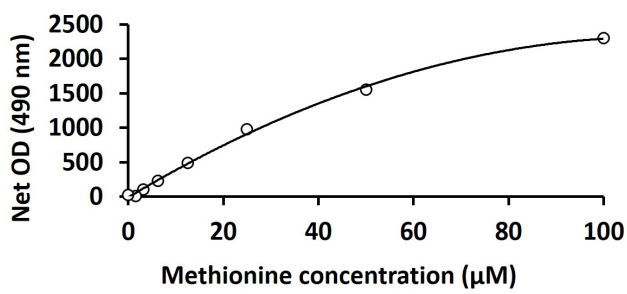
Images

ARG83377 Methionine Assay Kit standard curve image

ARG83377 Methionine Assay Kit results of a typical standard run with optical density reading at 450 nm.