

ARG83370 Tyrosine Assay Kit

Package: 100 assay
Store at: -20°C and RT

Summary

Product Description	ARG83370 Tyrosine Assay Kit is an Assay kit for the quantification of Tyrosine in serum, plasma, saliva, urine, cell lysate and tissue lysate
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Tyrosine
Conjugation	Un-conjugated
Conjugation Note	Read at 490 nm.
Sensitivity	10 µM
Sample Type	Serum, Plasma, Saliva, Urine, Cell lysate and Tissue lysate
Standard Range	15.6 - 1000 µM
Sample Volume	50 µL

Application Instructions

Assay Time	~30 min
------------	---------

Properties

Form	Liquid
Storage instruction	Store components at -20°C and RT. 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	Tyrosine is one of the 20 standard amino acids that are used by cells to synthesize proteins. It is a non-essential amino acid with a polar side group. It is called tyrosyl when referred to as a functional group or side chain. While tyrosine is generally classified as a hydrophobic amino acid, it is more hydrophilic than phenylalanine. It is encoded by the codons UAC and UAU in messenger RNA.
Function	Aside from being a proteinogenic amino acid, tyrosine has a special role by virtue of the phenol functionality. It occurs in proteins that are part of signal transduction processes and functions as a receiver of phosphate groups that are transferred by way of protein kinases. Phosphorylation of the hydroxyl group can change the activity of the target protein, or may form part of a signaling cascade via SH2 domain binding.
Research Area	Proteinogenic amino acids, Glucogenic amino acids, Ketogenic amino acids, Alpha-Amino acids, Aromatic amino acids, Phenols, Dopamine agonists, Carbonic anhydrase activators, Monoamine precursors