

ARG83378 Pyrophosphate Assay Kit

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

Summary

Product Description	ARG83378 Pyrophosphate Assay Kit is an Assay kit for the quantification of Pyrophosphate in Serum, Plasma, Saliva, Urine and Cell / Tissue lysates
Tested Reactivity	Other
Tested Application	FuncSt
Target Name	Pyrophosphate
Conjugation	Un-conjugated
Conjugation Note	Read at 590 nm.
Sensitivity	2.5 µM
Sample Type	Serum, Plasma, Saliva, Urine and Cell / Tissue lysates
Standard Range	3.91 - 125 µM
Sample Volume	50 µL

Application Instructions

Assay Time	~30 min
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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	Pyrophosphate is a potent inhibitor of calcium-phosphate crystal formation and growth. Extracellular pyrophosphate is produced upon ATP hydrolysis by the enzyme ectonucleotide pyrophosphatase/phosphodiesterase 1 (eNPP1). Pyrophosphate is degraded to phosphate by tissue-nonspecific alkaline phosphatase (TNAP), promoting calcification. Another enzyme, ectonucleoside triphosphate diphosphohydrolase 1 (eNTPD1), can hydrolyze ATP and ADP to phosphate, reducing the availability of ATP for pyrophosphate production and likely inducing calcification.
Function	The anion P2O7 is abbreviated PPI, standing for inorganic pyrophosphate. It is formed by the hydrolysis of ATP into AMP in cells.
Research Area	Pyrophosphates, Anions, Dietary minerals, Molecular biology, Nucleotides, E-number additives