

ARG81239 Alkaline Phosphatase Activity Assay Kit (Colorimetric)

Package: 100 assay
Store at: 4°C

Component

Cat. No.	Component Name	Package
ARG81239-01	Alkaline Phosphatase Activity Substrate	5 ml
ARG81239-02	Standard (p-Nitrophenol)	1 ml
ARG81239-03	Cell Lysis Buffer	20 ml
ARG81239-04	Stop Solution (10X)	10 ml

Summary

Product Description	ARG81239 Alkaline Phosphatase Activity Assay Kit (Colorimetric) can be used to measure Alkaline Phosphatase activity in Human or Mouse cells.
Tested Reactivity	Hu, Ms
Tested Application	FuncSt
Target Name	Alkaline Phosphatase Activity
Conjugation	Un-conjugated
Conjugation Note	Read at 405 nm
Sample Type	Cultured cells (cell lysate)
Standard Range	p - nitrophenol: 0.3 - 19.2 nmol
Alternate Names	TNSALP; HOPS; EC 3.1.3.1; Alkaline phosphatase, tissue-nonspecific isozyme; TNAP; Alkaline phosphatase liver/bone/kidney isozyme; APTNAP; AP-TNAP

Application Instructions

Assay Time	~ 1 hour
------------	----------

Properties

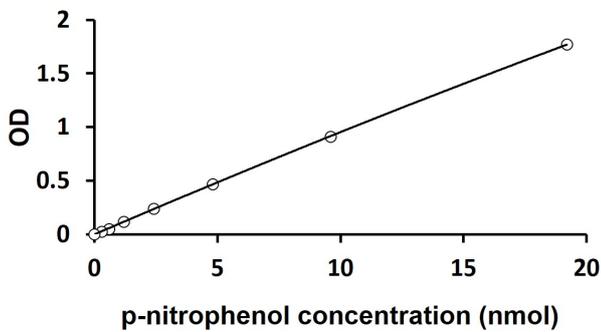
Form	Liquid
Storage instruction	Store the kit at 2-8°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ALPL
-------------	------

Gene Full Name	alkaline phosphatase, liver/bone/kidney
Background	There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects. The character of this disorder can vary, however, depending on the specific mutation since this determines age of onset and severity of symptoms. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]
Function	This isozyme may play a role in skeletal mineralization. [UniProt]
PTM	N-glycosylated.

Images



ARG81239 Alkaline Phosphatase Activity Assay Kit (Colorimetric) standard curve image

ARG81239 Alkaline Phosphatase Activity Assay Kit (Colorimetric) results of a typical standard run with optical density reading at 405 nm.