

ARG82249 Diamine Oxidase Assay Kit (Fluorometric)

Package: 100 tests

Store at: -20°C

Summary

Product Description	ARG82249 Diamine Oxidase Assay Kit (Fluorometric) can be used to measure Diamine Oxidase activity in serum and plasma.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Diamine Oxidase
Conjugation Note	λ ex/em = 530 / 585 nm (fluorometric)
Detection Range	0.5 - 6 U/L
Sample Type	Serum and plasma.
Sample Volume	10 μ l
Alternate Names	Amine oxidase copper domain-containing protein 1; Amiloride-binding protein 1; Histaminase; KAO; DAO; ABP1; DAO1; Amiloride-sensitive amine oxidase [copper-containing]; ABP; Kidney amine oxidase; Diamine oxidase; EC 1.4.3.22

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	30 min

Properties

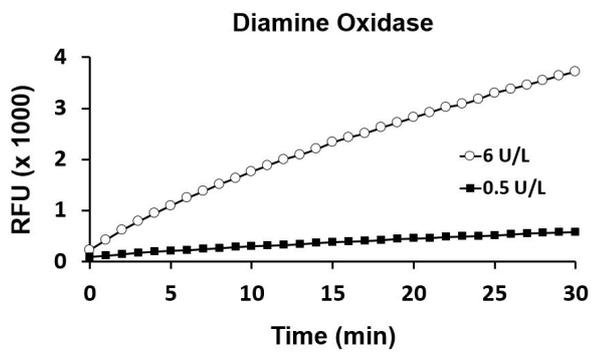
Form	Liquid
Storage instruction	Store the kit at -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	AOC1
Gene Full Name	amine oxidase, copper containing 1
Background	This gene encodes a metal-binding membrane glycoprotein that oxidatively deaminates putrescine, histamine, and related compounds. The encoded protein is inhibited by amiloride, a diuretic that acts by closing epithelial sodium ion channels. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]
Function	Catalyzes the degradation of compounds such as putrescine, histamine, spermine, and spermidine, substances involved in allergic and immune responses, cell proliferation, tissue differentiation, tumor formation, and possibly apoptosis. Placental DAO is thought to play a role in the regulation of the female reproductive function. [UniProt]

PTM	Topaquinone (TPQ) is generated by copper-dependent autoxidation of a specific tyrosyl residue. [UniProt]
Cellular Localization	Secreted, extracellular space. [UniProt]

Images



ARG82249 Diamine Oxidase Assay Kit (Fluorometric) enzyme kinetics graph

Kinetics of 0.5 and 6 U/L Diamine Oxidase reaction, using ARG82249 Diamine Oxidase Assay Kit (Fluorometric).