

ARG82158 Fumarase Activity Assay Kit (Colorimetric)

Package: 100 tests
Store at: -20°C

Summary

Product Description	ARG82158 Fumarase Activity Assay Kit (Colorimetric) can be used to measure Fumarase activity in serum, plasma, erythrocytes, tissue and cell culture supernatants.
Tested Reactivity	Hu, Ms, Rat, All
Tested Application	FuncSt
Target Name	Fumarase
Conjugation Note	Read at 565 nm
Sensitivity	0.4 U/L
Detection Range	0.4 - 70 U/L
Sample Type	serum, plasma, erythrocytes, tissue and cell culture supernatants
Sample Volume	20 µl
Alternate Names	MCUL1; MCL; LRCC; EC 4.2.1.2; Fumarate hydratase, mitochondrial; FMRD; Fumarase; HLRCC

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	40 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	FH
Gene Full Name	fumarate hydratase
Background	The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy. [provided by RefSeq, Jul 2008]
Function	Also acts as a tumor suppressor. [UniProt]
Highlight	Related products:

[Fumarase antibodies: Fumarase ELISA Kits:](#)

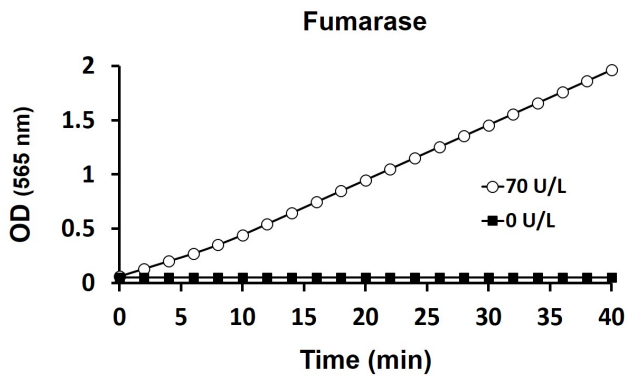
Related news:

[TCA intermediate fumarate promotes mitobiogenesis](#)

Cellular Localization

Isoform Mitochondrial: Mitochondrion. Isoform Cytoplasmic: Cytoplasm. [UniProt]

Images



ARG82158 Fumarase Activity Assay Kit (Colorimetric) enzyme kinetics graph

Kinetics of 0 and 70 U/L Fumarase reaction, using ARG82158 Fumarase Activity Assay Kit (Colorimetric).