

Fumarase /fumarate hydratase ELISA Kit | FUM elisa kit

Rat Fumarase /fumarate hydratase ELISA Kit

CATALOG #
AAA82113

REACTIVITY
Rat

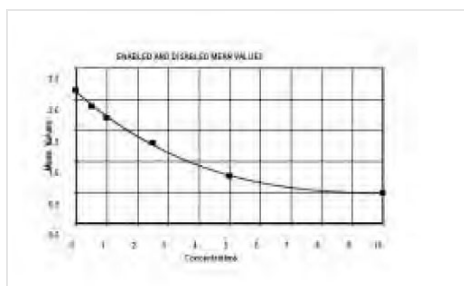
PRODUCT SYNONYMS

Fumarase /fumarate hydratase; Rat Fumarase /fumarate hydratase ELISA Kit; FUM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FUM elisa kit

For Samples: Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma

Intended Uses: This FUM ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of FUM in the sample, this FUM ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus FUM concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of FUM utilizes a monoclonal anti-FUM antibody and an FUM-HRP conjugate. The assay sample and buffer are incubated together with FUM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the FUM concentration since FUM from samples and FUM-HRP conjugate compete for the anti-FUM antibody binding site. Since the number of sites is limited, as more sites are occupied by FUM from the sample, fewer sites are left to bind FUM-HRP conjugate. Standards of known FUM concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of FUM. The FUM concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	41397149
NCBI GeneID	2720522
Molecular Weight	49,696 Da
NCBI Official Full Name	Fum
NCBI Official Symbol	fumC
NCBI Protein Information	fumarate hydratase
UniProt Protein Name	Fumarate hydratase class II
UniProt Gene Name	fum
UniProt Synonym Gene Names	fumC; MAP_2693; Fumarase C
UniProt Entry Name	Q73WG7_MYCPA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fum-rat-elisa-kits/fumarase-fumarate-hydratase/82113>