

Mouse hypoxia-inducible factor 1alpha ELISA Kit | HIF-1alpha elisa kit

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CATALOG #
AAA16167

REACTIVITY
Mouse

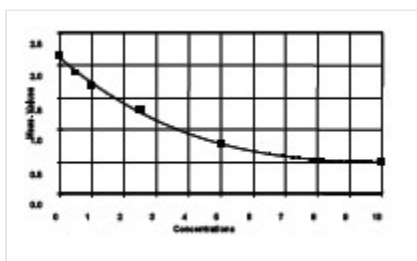
PRODUCT SYNONYMS

hypoxia-inducible factor 1alpha; Mouse hypoxia-inducible factor 1alpha ELISA Kit; hypoxia-inducible factor 1a; hypoxia-inducible factor 1alpha (Mouse); HIF-1alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HIF-1alpha elisa kit

For Samples: Cell culture fluid & body fluid & tissue homogenate serum or blood plasma

Intended Uses: This HIF1a 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 HIF1a in the sample, this HIF1a 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 HIF1a 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 HIF1a utilizes a polyclonal anti-HIF1a antibody and an HIF1a-HRP conjugate. The assay sample and buffer are incubated together with HIF1a-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 HIF1a concentration since HIF1a from samples and HIF1a-HRP conjugate compete for the anti-HIF1a antibody binding site. Since the number of sites is limited, as more sites are occupied by HIF1a from the sample, fewer sites are left to bind HIF1a-HRP conjugate. Standards of known HIF1a concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (O.D.) to the concentration of HIF1a. The HIF1a concentration in each sample is interpolated from this standard curve.

Product Categories/Family for HIF-1alpha elisa kit

Mouse ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504385
NCBI GeneID	3091
NCBI Accession #	NP_001521.1
NCBI GenBank Nucleotide #	NM_001530.3
UniProt Accession #	Q16665; Q53XP6; Q96PT9; Q9UPB1
Molecular Weight	92,670 Da
NCBI Official Full Name	hypoxia-inducible factor 1-alpha isoform 1
NCBI Official Synonym Full Names	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
NCBI Official Symbol	HIF1A
NCBI Official Synonym Symbols	HIF1; MOP1; PASD8; bHLHe78; HIF-1alpha; HIF1-ALPHA
NCBI Protein Information	hypoxia-inducible factor 1-alpha; HIF-1-alpha; OTTHUMP00000179061; OTTHUMP00000179062; OTTHUMP00000179063; member of PAS protein 1; ARNT interacting protein; ARNT-interacting protein; member of PAS superfamily 1; PAS domain-containing protein 8; basic-helix-loop-helix-PAS protein MOP1; class E basic helix-loop-helix protein 78; hypoxia-inducible factor 1 alpha isoform I.3; hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
UniProt Protein Name	Hypoxia-inducible factor 1-alpha
UniProt Gene Name	HIF1A
UniProt Synonym Gene Names	BHLHE78; MOP1; PASD8
UniProt Entry Name	HIF1A_HUMAN

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/hif-1alpha-mouse-elisa-kits/hypoxia-inducible-factor-1alpha/16167>