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## Datasheet for ABIN367181 MSH alpha ELISA Kit

1 Image

1 Publication



#### Overview

Quantity:	96 tests
Target:	MSH alpha
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156-10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

## Product Details

Purpose:	For the quantitative determination of human alpha-melanocyte stimulating hormone (alpha- MSH) concentrations in serum, plasma, cell culture supernates.
	wory concentrations in serum, plasma, cen culture supernates.
Sample Type:	Serum, Plasma, Cell Culture Supernatant, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of human alpha-MSH.
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity
	detection between the target antigen and all analogues for other species. Therefore, cross
	reaction may still exist.
Sensitivity:	0.039 ng/mL
Components:	Assay plate (12 × 8 coated Microwells)

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- Standard (freeze dried)
- Biotin-antibody (100 × concentrate)
- HRP-avidin (100 × concentrate)
- Biotin-antibody Diluent
- HRP-avidin Diluent
- Sample Diluent
- Wash Buffer (25 × concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip (for 96 wells)
- Instruction manual

#### Target Details

Target:	MSH alpha
Alternative Name:	Melanocyte stimulating hormone (MSH) (MSH alpha Products)
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Peptide Hormone Metabolism, Hormone
	Activity

### Application Details

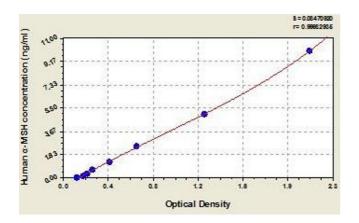
Application Notes:	• The supplier is only responsible for the kit itself, but not for the samples consumed during the
	assay. The user should calculate the possible amount of the samples used in the whole test.
	Please reserve sufficient samples in advance.
	<ul> <li>Samples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored at -20°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bioactivity and contamination.</li> </ul>
	Grossly hemolyzed samples are not suitable for use in this assay.
	<ul> <li>If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.</li> </ul>
	Please predict the concentration before assaying. If values for these are not within the range
	of the standard curve, users must determine the optimal sample dilutions for their particular experiments.
	<ul> <li>Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected ELISA results due to the impacts of certain chemicals.</li> </ul>
	<ul> <li>Owing to the possibility of mismatching between antigens from another resource and antibodies used in this supplier's kits (e.g., antibody targets conformational epitope rather</li> </ul>
	than linear epitope), some native or recombinant proteins from other manufacturers may not be recognized by this supplier's products.
	Influenced by factors including cell viability, cell number and cell sampling time, samples
	from cell culture supernatant may not be recognized by the kit.
	• Fresh samples without long time storage are recommended for the test. Otherwise, protein

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	degradation and denaturalization may occur in those samples and finally lead to wrong results.
Comment:	Detection wavelength: 450 nm
	Information on standard material:
	Depending on the antigen to be detected, standards can be either native or recombinant
	protein. The recombinant proteins are being expressed in CHO cells in most cases. Please
	inquire for more information. The formulation of auxiliary material in the standard is considered
	proprietary information, however it does not contain any poisonous substance. Proclin 300
	(1:3000) is used as preservative.
	Information on reagents:
	In most cases the stop solution provided is 1 N H2SO4. The formulation of wash solution is
	proprietary information. None of the components contain (sodium) azide, thimerosal, 2-
	mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the
	sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.
	Information on antibodies:
	The antibodies provided in different kits vary in regards to clonality and host. Some antibodies
	are affinity purified, some are Protein A
Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody
	specific for alpha-MSH has been pre-coated onto a microplate. Standards and samples are
	pipetted into the wells and any alpha-MSH present is bound by the immobilized antibody. After
	removing any unbound substances, a biotin-conjugated antibody specific for alpha-MSH is
	added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to
	the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate
	solution is added to the wells and color develops in proportion to the amount of alpha-MSH
	bound in the initial step. The color development is stopped and the intensity of the color is measured.
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were

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	tested twenty times on one plate to assess precision.
	Inter-assay precision (precision between assays): Three samples of known concentration were
	tested in twenty assays to assess precision.
	Intra-assay: CV% less than 8%
	Inter-assay: CV% less than 10%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing
	protection when using this material.
Handling Advice:	The kit should not be used beyond the expiration date on the kit label.
	<ul> <li>Do not mix or substitute reagents with those from other lots or sources.</li> </ul>
	<ul> <li>If samples generate values higher than the highest standard, dilute the samples with Sample Diluent and repeat the assay.</li> </ul>
	<ul> <li>Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation</li> </ul>
	time/temperature and kit age can cause variation in binding.
	This assay is designed to eliminate interference by soluble receptors, binding proteins and
	other factors present in biological samples. Until all factors have been tested in the
	Immunoassay, the possibility of interference cannot be excluded.
Storage:	4 °C/-20 °C
Storage Comment:	For unopened kit: All the reagents should be kept according to the labels on vials.
Expiry Date:	6 months
Publications	
Product cited in:	Fotschki, Jurgo?ski, Ju?kiewicz, Zdu?czyk: "Dietary Supplementation with Raspberry Seed Oil
	Modulates Liver Functions, Inflammatory State, and Lipid Metabolism in Rats." in: The Journal
	of nutrition, Vol. 145, Issue 8, pp. 1793-9, (2015) (PubMed).



#### ELISA

Image 1. Typical standard curve

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