Rat Phenylalanine-4-hydroxylase (PAH) ELISA Kit

Catalog No: #EK11479

Package Size: #EK11479-1 48T #EK11479-2 96T



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

Product Name	Rat Phenylalanine-4-hydroxylase (PAH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	PH; PKU; PKU1;
Accession No.	P04176
Uniprot	P04176
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5%
	within the expiration date under appropriate storage condition.
	The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days,
	and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China
	Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage
	at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

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Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PAH in samples. An antibody specific for PAH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPAH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PAH is added to the wells. After washing, Streptavidin 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 PAH bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Phenylalanine hydroxylase is the rate-limiting enzyme of the metabolic pathway which degrades excess phenylalanine. The other substrates in the reaction are molecular oxygen and tetrahydrobiopterin. Tetrahydrobiopterin is a member of the group of redox biochemicals known as pteridines.

PAH is the gene that encodes for phenylalanine hydroxylase. It was the research on phenylalanine hydroxylase by Seymour Kaufman that led to the discovery of tetrahydrobiopterin as a biological cofactor. Phenylalanine hydroxylase is a tetramer composed of four monomers, that is, composed of 4 identical subunits. Each subunit is in turn composed of three domains, a regulatory domain, a catalytic domain, and a tetramerization domain

Note: This product is for in vitro research use only