

Rat Cytochrome P450, family 7, subfamily A, polypeptide 1 (CYP7A1) ELISA Kit

Catalog No: #EK10942



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Package Size: #EK10942-1 48T #EK10942-2 96T

Description

Product Name	Rat Cytochrome P450, family 7, subfamily A, polypeptide 1 (CYP7A1) ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CP7A; CYP7; MGC126826; MGC138389; cholesterol 7 alpha-monooxygenase cholesterol 7-alpha-hydroxylase cytochrome P450; subfamily VIIA (cholesterol 7 alpha-monooxygenase); polypeptide 1
Accession No.	P51542
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:Request Information
Sensitivity:Request Information
Sample Type:Serum, Plasma, Other biological fluids
Sample Volume: 1-200 μL
Assay Time:1-4.5h
Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CYP7A1 in samples. An antibody specific for CYP7A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCYP7A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CYP7A1 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 CYP7A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Published Papers

Zhiyue Xu;Shu Xu;Xiaoming Liu;Lan Cheng;Xinghuang Liu;Xiaotian Xie;Dan Zhou;Dongke Wang;Jie Chen;Xiaoling Deng;Lei Zhang;Ruohang He;Ying Li;Mengmeng Cheng;Ling Yang;Xiaohua Hou;Tao Bai et al., Deficiency of Epithelial PIEZO1 Alleviates Liver Steatosis Induced by High-Fat Diet in Mice., , (2025)  
[PMID:39781454](https://pubmed.ncbi.nlm.nih.gov/39781454/)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.