

Human Hematopoietic Prostaglandin D Synthase (HPGDS) ELISA Kit

Catalogue No.:abx351066

Human Hematopoietic Prostaglandin D Synthase (HPGDS) ELISA Kit is an ELISA Kit for the in vitro quantitative measurement of Human Hematopoietic Prostaglandin D Synthase (HPGDS) concentrations in serum, plasma and other biological fluids.

Target:	Hematopoietic Prostaglandin D Synthase (HPGDS)
Reactivity:	Human
Tested Applications:	ELISA
Recommended dilutions:	Optimal dilutions/concentrations should be determined by the end user.
Storage:	Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.
Validity:	The validity for this kit is at least 6 months. Up to 12 months validity can be provided on request.
Stability:	The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5% within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout.
UniProt Primary AC:	O60760 (<u>UniProt</u> , <u>ExPASy</u>)
Gene Symbol:	HPGDS
GenelD:	27306
OMIM:	<u>602598</u>
HGNC:	17890
KEGG:	hsa:27306
Ensembl:	ENSG00000163106
String:	<u>9606.ENSP00000295256</u>
Test Range:	78.13 pg/ml - 5000 pg/ml
Sensitivity:	46.9 pg/ml

Datasheet

Version: 3.0.0 Revision date: 21 Jun 2025



Standard Form:	Lyophilized
Detection Method:	Colorimetric
Assay Type:	Sandwich
Assay Data:	Quantitative
Sample Type:	Serum, plasma and other biological fluids.
Assay Principle:	This kit is based on sandwich enzyme-linked immuno-sorbent assay technology. An antibody is pre- coated onto a 96-well plate. Standards, test samples, and biotin-conjugated reagent are added to the wells and incubated. The HRP-conjugated reagent is then added, and the whole plate is incubated. Unbound conjugates are removed using wash buffer at each stage. TMB substrate is used to quantify the HRP enzymatic reaction. After TMB substrate is added, only wells that contain sufficient HPGDS will produce a blue coloured product, which then changes to yellow after adding the acidic stop solution. The intensity of the yellow colour is proportional to the HPGDS amount bound on the plate. The Optical Density (OD) is measured spectrophotometrically at 450 nm in a microplate reader, from which the concentration of HPGDS can be calculated.
Kit Components:	The kit components listed are for reference only. The product manual may differ slightly. The product should be used as stated on the product manual included and delivered together with the product. Pre-coated 96-Well Microplate Standard Standard Standard Diluent Buffer Detection Reagent A Detection Reagent B Diluent A Diluent B TMB Substrate Stop Solution Plate Sealer
Material Required But	• 37°C incubator
Not Provided:	Multi and single channel pipettes and sterile pipette tips
	 Squirt bottle or automated microplate washer 1.5 ml tubes Distilled water Absorbent filter papers 100 ml and 1 liter graduated cylinders Microplate reader (wavelength: 450 nm) ELISA Shaker





Results Calculation:	For calculation, average the O.D.450 duplicate readings for each reference standard and each sample and substract the average control (zero) O.D.450 reading. The standard curve can be plotted as the relative O.D.450 of each reference standard solution (Y) vs. the respective concentration of each standard solution (X). The HPGDS concentration of the samples can be interpolated from the standard curve.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, medium and high levels of Hematopoietic Prostaglandin D Synthase (HPGDS) were were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, medium and high levels of Hematopoietic Prostaglandin D Synthase (HPGDS) were tested on 3 different plates, 8 replicates in each plate. CV (%) = (Standard Deviation / mean) × 100 Intra-Assay: CV<10%
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES. The range and sensitivity is subject to change. Please contact us for the latest product information. For accurate results, sample concentrations must be diluted to mid-range of the kit. If you require a specific range, please contact us in advance or write your request in your order comments. Please note that our kits are optimised for detection of native samples, rather than recombinant proteins. We are unable to guarantee detection of recombinant proteins, as they may have different sequences or tertiary structures to the native protein.