

ARG81621 Human ENPP2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81621-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81621-002	Standard	2 X 40 ng/vial	4°C
ARG81621-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81621-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81621-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81621-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81621-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81621-008	25X Wash buffer	20 ml	4°C
ARG81621-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81621-010	STOP solution	10 ml (Ready to use)	4°C
ARG81621-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81621 Human ENPP2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ENPP2 in serum, plasma (heparin), urine, human milk and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ENPP2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	312.5 pg/ml
Sample Type	Serum, plasma (heparin), urine, human milk and cell culture supernatants.
Standard Range	625 - 40000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3% Inter-Assay CV: 6.7%
Alternate Names	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2; Extracellular lysophospholipase D; PDNP2; NPP2; AUTOTAXIN; ATX-X; Autotaxin; LysoPLD; EC 3.1.4.39; PD-IALPHA; E-NPP 2; ATX

Application Instructions

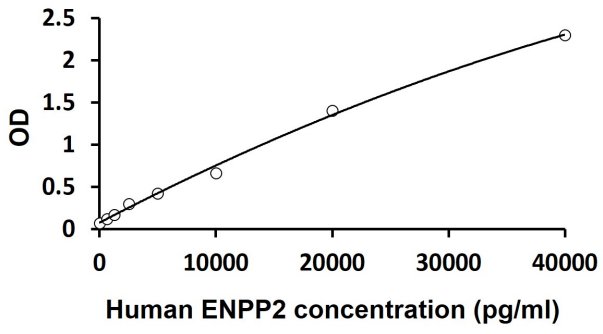
Assay Time	~ 5 hours
------------	-----------

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ENPP2
Gene Full Name	ectonucleotide pyrophosphatase/phosphodiesterase 2
Background	The protein encoded by this gene functions as both a phosphodiesterase, which cleaves phosphodiester bonds at the 5' end of oligonucleotides, and a phospholipase, which catalyzes production of lysophosphatidic acid (LPA) in extracellular fluids. LPA evokes growth factor-like responses including stimulation of cell proliferation and chemotaxis. This gene product stimulates the motility of tumor cells and has angiogenic properties, and its expression is upregulated in several kinds of carcinomas. The gene product is secreted and further processed to make the biologically active form. Several alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2008]
Function	Hydrolyzes lysophospholipids to produce lysophosphatidic acid (LPA) in extracellular fluids. Major substrate is lysophosphatidylcholine. Also can act on sphingosylphosphorylcholine producing sphingosine-1-phosphate, a modulator of cell motility. Can hydrolyze, in vitro, bis-pNPP, to some extent pNP-TMP, and barely ATP. Involved in several motility-related processes such as angiogenesis and neurite outgrowth. Acts as an angiogenic factor by stimulating migration of smooth muscle cells and microtubule formation. Stimulates migration of melanoma cells, probably via a pertussis toxin-sensitive G protein. May have a role in induction of parturition. Possible involvement in cell proliferation and adipose tissue development. Tumor cell motility-stimulating factor. [UniProt]
Highlight	Related products: ENPP2 antibodies ; ENPP2 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-glycosylation, but not furin-cleavage, plays a critical role on secretion and on lysoPLD activity. [UniProt]



ARG81621 Human ENPP2 ELISA Kit standard curve image

ARG81621 Human ENPP2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.