ARG81037
Human Protein C ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81037 Human Protein C ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Protein C in plasma (citrate).
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Protein C
Conjugation	HRP
Conjugation Note	TMB at 450 nm
Sensitivity	0.06
Sample Type	Plasma (citrate).
Standard Range	12.5 - 150 %
Sample Volume	20 µl
Alternate Names	EC 3.4.21.69; Blood coagulation factor XIV; PC; THPH3; Vitamin K-dependent protein C; THPH4; APC; Autoprothrombin IIA; PROC1; Anticoagulant protein C

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.

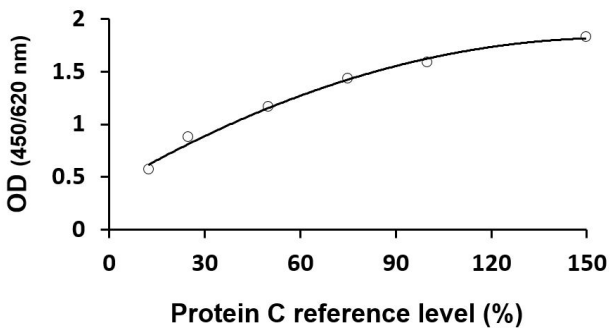
Bioinformation

Database links	GeneID: 5624 Human Swiss-port # P04070 Human
Gene Symbol	PROC
Gene Full Name	protein C (inactivator of coagulation factors Va and VIIIa)
Background	This gene encodes a vitamin K-dependent plasma glycoprotein. The encoded protein is cleaved to its activated form by the thrombin-thrombomodulin complex. This activated form contains a serine protease domain and functions in degradation of the activated forms of coagulation factors V and VIII. Mutations in this gene have been associated with thrombophilia due to protein C deficiency, neonatal purpura fulminans, and recurrent venous thrombosis.[provided by RefSeq, Dec 2009]
Function	Protein C is a vitamin K-dependent serine protease that regulates blood coagulation by inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids. [UniProt]
Highlight	Related products: Protein C antibodies; Protein C ELISA Kits; Protein C Duos / Panels;

New ELISA data calculation tool:
Simplify the ELISA analysis by GainData

Research Area	Cell Biology and Cellular Response kit
PTM	The vitamin K-dependent, enzymatic carboxylation of some Glu residues allows the modified protein to bind calcium. N- and O-glycosylated. Partial (70%) N-glycosylation of Asn-371 with an atypical N-X-C site produces a higher molecular weight form referred to as alpha. The lower molecular weight form, not N-glycosylated at Asn-371, is beta. O-glycosylated with core 1 or possibly core 8 glycans. The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. May be phosphorylated on a Ser or Thr in a region (AA 25-30) of the propeptide.

Images



ARG81037 Human Protein C ELISA Kit standard curve image

ARG81037 Human Protein C ELISA Kit results of a typical standard run with optical density reading at 450 / 620 nm.