

ARG82831 Rat Serpin D1 / Heparin cofactor II ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82831-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82831-002	Standard	2 X 50 ng/vial	4°C
ARG82831-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82831-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82831-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82831-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82831-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82831-008	25X Wash buffer	20 ml	4°C
ARG82831-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82831-010	STOP solution	10 ml (Ready to use)	4°C
ARG82831-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82831 Rat Serpin D1 / Heparin cofactor II ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Serpin D1 / Heparin cofactor II in serum, plasma (EDTA, citrate), cell culture supernatants and urine.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	Serpin D1 / Heparin cofactor II
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.39 ng/ml
Sample Type	Serum, plasma (EDTA, citrate), cell culture supernatants and urine.
Standard Range	0.78 - 50 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.2%

Inter-Assay CV: 5.6%

Alternate Names

HC2; Protease inhibitor leuserpin-2; D22S673; HC-II; HCII; THPH10; Heparin cofactor 2; Heparin cofactor II; HCF2; LS2; HLS2; Serpin D1

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 SERPIND1

Gene Full Name serpin peptidase inhibitor, clade D (heparin cofactor), member 1

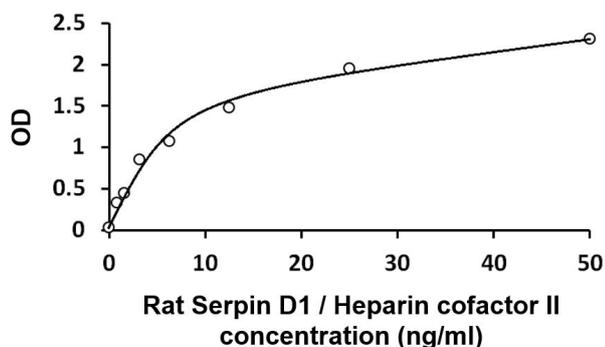
Background This gene belongs to the serpin gene superfamily. Serpins play roles in many processes including inflammation, blood clotting, and cancer metastasis. Members of this family have highly conserved secondary structures with a reactive center loop that interacts with the protease active site to inhibit protease activity. This gene encodes a plasma serine protease that functions as a thrombin and chymotrypsin inhibitor. The protein is activated by heparin, dermatan sulfate, and glycosaminoglycans. Allelic variations in this gene are associated with heparin cofactor II deficiency. [provided by RefSeq, Jul 2015]

Function Thrombin inhibitor activated by the glycosaminoglycans, heparin or dermatan sulfate. In the presence of the latter, HC-II becomes the predominant thrombin inhibitor in place of antithrombin III (AT-III). Also inhibits chymotrypsin, but in a glycosaminoglycan-independent manner.

Peptides at the N-terminal of HC-II have chemotactic activity for both monocytes and neutrophils. [UniProt]

PTM Phosphorylated by FAM20C in the extracellular medium. [UniProt]

Images



ARG82831 Rat Serpin D1 / Heparin cofactor II ELISA Kit standard curve image

ARG82831 Rat Serpin D1 / Heparin cofactor II ELISA Kit results of a typical standard run with optical density reading at 450 nm.