

ARG82486 Human CHIT1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82486-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82486-002	Standard	2 X 10 ng/vial	4°C
ARG82486-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82486-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82486-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82486-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82486-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82486-008	25X Wash buffer	20 ml	4°C
ARG82486-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82486-010	STOP solution	10 ml (Ready to use)	4°C
ARG82486-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82486 Human CHIT1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CHIT1 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CHIT1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.5% Inter-Assay CV: 6.3%

Alternate Names EC 3.2.1.14; Chitotriosidase-1; CHI3; CHIT; Chitinase-1; CHITD

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 CHIT1

Gene Full Name chitinase 1 (chitotriosidase)

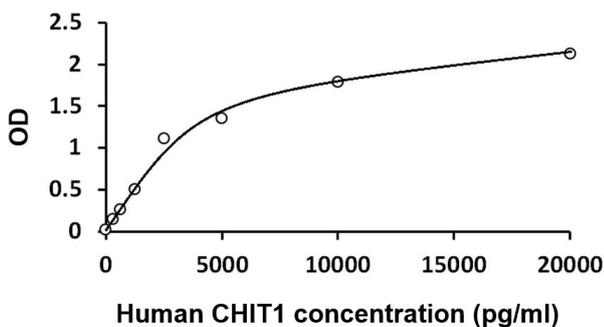
Background Chitotriosidase is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]

Function Degrades chitin, chitotriose and chitobiose. May participate in the defense against nematodes and other pathogens. Isoform 3 has no enzymatic activity. [UniProt]

Highlight Related products:
[CHIT1 ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Secreted. Lysosome. Note=A small proportion is lysosomal. [UniProt]

Images



ARG82486 Human CHIT1 ELISA Kit standard curve image

ARG82486 Human CHIT1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.