Enterokinase ELISA Kit

Catalog Number	LDG00026E
Package	96 T (8 x 12 strips) / Customized package

For full product information, images and publications, please visit our website.

Overview

Description

Enterokinase is a highly specific serine protease that cleaves fusion proteins by recognizing the -(Asp)4 Lys sequence. It is commonly used to release the native protein from the N-terminal fusion peptide or protein. Leadgene® Enterokinase ELISA kit is an enzyme-linked immunosorbent assay (ELISA) for the quantitative detection of Enterokinase level in sample solution. The Enterokinase ELISA kit is for research use only (RUO). Not suitable for use in diagnostic or therapeutic procedures.

Components

Enterokinase (EK) ELISA plate	96 wells (12 x 8-well strips)
Standard Enterokinase (EK)	2 vials (Lyophilized form)
Standard reconstitution buffer	1 vial (1.1 mL)
Standard & Sample diluent buffer	1 vial (12 mL)
HRP-antibody conjugate	1 vial (70 µL)
HRP-antibody conjugated diluent buffer	1 vial (12 mL)
20 X wash buffer	1 vial (15 mL)
TMB	1 vial (12 mL)
Stop solution	1 vial (6 mL)
Microplate sealing film	1 sheet

Specifications

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Reactivity

Human

Application

Sandwich ELISA analysis

Sensitivity

Limit of detection (LoD): 0.007 ng/mL.
Limit of quantification (LoQ): 0.032 ng/mL.

Specificity

Enterokinase

Instruction

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at 2-8°C for long term storage.

Stability & Storage

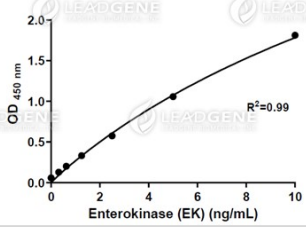
This product is stable after storage at:

- 2-8℃ for unopened product.

Please refer to product manual for storage constructions.

Image

Standard	Enterokinase (ng/mL)	OD 450 nm	
1	20	2.745	2.627
2	10	1.802	1.823
3	5	1.027	1.088
4	2.5	0.582	0.569
5	1.25	0.326	0.34
6	0.625	0.19	0.214
7	0.3125	0.129	0.128
Blank	Blank	0.058	0.059



Typical data
The following data are for demonstration only

Reagents (Store at 2-8°C)	Quantity 1x96 well kit	Reconstitution
Enterokinase (EK) ELISA plate Stripwell microplate with 96 anti-enterokinase (EK) monoclonal antibodies coated wells	96 wells (12 x 8-well strips)	Ready for use
Standard Enterokinase (EK) lyophilized from buffered protein solution with preservatives	2 vials (Lyophilized form)	Refer to the vial label for reconstitution volume. Reconstitute by adding Standard reconstitution buffer to be a stock solution of 100 ng/mL. (see procedure, section 8.(2))
Standard reconstitution buffer Buffered protein solution with preservatives	1 vial (1.1 mL)	Ready for use
Standard & Sample diluent buffer Buffered protein solution with preservatives	1 vial (12 mL)	Ready for use
HRP-antibody conjugate HRP conjugated anti- Anti-enterokinase (EK) monoclonal antibody in buffered protein solution with preservatives	1 vial (70 µL)	Dilute 200 x with HRP-antibody conjugated diluent buffer (see reagent preparation, section 5.A)
HRP-antibody conjugated diluent buffer Buffered solution with preservatives	1 vial (12 mL)	Ready for use
20 X wash buffer 20-fold concentrated solution of buffered surfactant with preservatives	1 vial (15 mL)	Dilute 20 x with distilled water (see reagent preparation, section 5.B)
TMB Chromogenic substrate (tetramethylbenzidine) for HRP	1 vial (12 mL)	Ready for use
Stop solution H_2SO_4 solution	1 vial (6 mL)	Ready for use
Microplate sealing film	1 sheet	N/A

Reagents provided and reconstitution

	1	2	3	4
A	Standard 1 (20 ng/mL)	Standard 1 (20 ng/mL)	Sample 1	Sample 5
B	Standard 2 (10 ng/mL)	Standard 2 (10 ng/mL)	Sample 1	Sample 5
C	Standard 3 (5 ng/mL)	Standard 3 (5 ng/mL)	Sample 2	Sample 6
D	Standard 4 (2.5 ng/mL)	Standard 4 (2.5 ng/mL)	Sample 2	Sample 6
E	Standard 5 (1.25 ng/mL)	Standard 5 (1.25 ng/mL)	Sample 3	Sample 7
F	Standard 6 (0.625 ng/mL)	Standard 6 (0.625 ng/mL)	Sample 3	Sample 7
G	Standard 7 (0.3125 ng/mL)	Standard 7 (0.3125 ng/mL)	Sample 4	Sample 8
H	Blank	Blank	Sample 4	Sample 8

An example of orientation of standards, blanks and samples in the stripwells microplate

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