

## Human Pseudomonas Exotoxin A (PEA) ELISA Kit

Catalog No: #EK8594



Package Size: #EK8594-1 48T #EK8594-2 96T

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## Description

Product Name	Human Pseudomonas Exotoxin A (PEA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.078 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:Sandwich

Test principle:This assay employs a two-site sandwich ELISA to quantitate PEA in samples. An antibody specific for PEA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPEA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PEA is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PEA bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The Pseudomonas exotoxin (or exotoxin A) is an exotoxin produced by Pseudomonas aeruginosa. It inhibits elongation factor-2. It does so by ADP-ribosylation of EF2. This then causes the elongation of polypeptides to cease.(The mechanism of the toxin is similar to that of Diphtheria toxin.) It has been investigated as a treatment for hepatitis B[3] and cancer.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.