

Kallikrein, Human Plasma

Cat # KAL15-N-50

Kallikrein, Human Plasma

Size: 50 ug

Kallikreins (tissue and plasma kallikrein) are peptidases (enzymes that cleave peptide bonds in proteins), a subgroup of the serine protease family. They liberate kinins (BK and KD) from the kininogens. Prekallikrein is the precursor of plasma kallikrein. It can only activate kinins after being activated itself by factor XII or other stimuli. There are 15 known kallikreins: KLK1, KLK2, KLK3, KLK4, KLK5, KLK6, KLK7, KLK8, KLK9, KLK10, KLK11, KLK12, KLK13, KLK14, KLK15.

Kallikreins are targets of active investigation by drug researchers as possible biomarkers for cancer. Prostate-specific antigen (PSA; hk3, human kallikrein gene 3) and human glandular kallikrein (hk2) are used as tumor markers for prostate cancer. It also generates plasmin from plasminogen: kallikrein is a serine protease that releases bradykinin from kininogen. Present in plasma as an inactive precursor prokallikrein.

Source and Form:

Kallikrein was purified from human plasma (>95%, mol wt 120 Kda) using proprietary techniques. Produced a single arc on IEP of whole serum or plasma or purified antigen. It is supplied in Tris, pH 7.8, 100 mM NaCl liquid (see lot sp conc on the vial) or in powder form. Reconstitute powder in water at a minimum of 100 ug/ml. Store lyophilized at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.

All human derived material has been tested negative for HIV, HCV, and HbSAg. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

Activity: 15 units per mg. One unit is defined as the amount of enzyme that hydrolyzes one umole of D-Pro-Phe-Arg-pNA per minute at 25°C, pH 7.8.

Suggested Applications:

Antigen in ELISA and Western blots, excellent antigen for detection of HDV with minimal specificity problems.

Refs: Bhoola KD (1992) Pharmacol. Rev. 44, 1-80; Borongo CA

all items are for in vitro research use only.

Related items

Catalog#	ProdDescription
Rabbit-Poly Apolipoprotein A-I protein antiserum	APOA11-S Anti-Human Plasma
Rabbit-Poly Apolipoprotein A-I protein IgG, aff pure	APOA12-A Anti-Human
Rabbit-Poly Apolipoprotein A-I protein IgG, aff pure	APOA13-A Anti-Mouse
HDL	APOA15-N-100 Apolipoprotein A-I, Human Plasma,
Goat-PolyApolipoprotein A-II protein IgG, aff pure	APOA21-A Anti-Human Apolipoprotein A-II
HDL	APOA25-N-100 Apolipoprotein A-II, Human Plasma,
Plasma, HDL	APOA45-N-100 Apolipoprotein A-IV, Human
Goat-PolyAPOB21-A aff pure	APOB21-C Human Apolipoprotein B protein control for WB
LDL	APOB25-N-100 Apolipoprotein B, Human Plasma,
Rabbit-Poly Apolipoprotein C-I IgG, aff pure	APOC11-A Anti-Human
control for WB	APOC15-N-100 Human Apolipoprotein C-I protein control for WB
VLDL	APOC15-N-100 Apolipoprotein C-I, Human Plasma,
Rabbit-Poly Apolipoprotein C-II antiserum	APOC21-S Anti-Human Plasma
Rabbit-Poly Apolipoprotein C-II IgG, aff pure	APOC22-A Anti-Human
VLDL	APOC25-N-50 Apolipoprotein C-II, Human Plasma,
Rabbit-Poly Apolipoprotein C-III IgG, aff pure	APOC32-A Anti-Human
Plasma, VLDL	APOC35-N-50 Apolipoprotein C-III, Human
Goat-PolyAPOE11-S #1	APOE11-S Anti-Human ApoE protein antiserum
Mouse-Mono ApoE protein IgG #2	APOE12-M Monoclonal Anti-Human
Rabbit-Poly Apolipoprotein E (ApoE) IgG, aff pure	APOE13-A Anti-Human Plasma
Apolipoprotein E protein	APOE15-R Human Purified native plasma
Apolipoprotein E2 protein	APOE25-R Recombinant Purified Human
Rabbit-Poly Apolipoprotein E3 protein	APOE31-S Anti-Human ApoE3
Apolipoprotein E3 protein	APOE35-R Recombinant Purified Human
	APOE36-R Recombinant (E coli) Purified
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