

Kallikrein, Human Plasma

Cat # KAL15-N-50

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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	APOA11-S Anti-Human Plasma
Apolipoprotein A-I protein antiserum	
Rabbit-Poly	APOA12-A Anti-Human
Apolipoprotein A-I protein IgG, aff pure	
Rabbit-Poly	APOA13-A Anti-Mouse
Apolipoprotein A-I protein IgG, aff pure	
APOA15-N-100	Apolipoprotein A-I, Human Plasma,
HDL	
Goat-PolyAPOA21-A	Anti-Human Apolipoprotein A-II
protein IgG, aff pure	
APOA25-N-100	Apolipoprotein A-II, Human Plasma,
HDL	
APOA45-N-100	Apolipoprotein A-IV, Human
Plasma, HDL	
Goat-PolyAPOB21-A	Ant-Human Apolipoprotein B IgG,
aff pure	
APOB21-C	Human Apolipoprotein B protein
control for WB	
APOB25-N-100	Apolipoprotein B, Human Plasma,
LDL	
Rabbit-Poly	APOC11-A Anti-Human
Apolipoprotein C-I IgG, aff pure	
APOC15-N-100	Human Apolipoprotein C-I protein
control for WB	
APOC15-N-100	Apolipoprotein C-I, Human Plasma,
VLDL	
Rabbit-Poly	APOC21-S Anti-Human Plasma
Apolipoprotein C-II antiserum	
Rabbit-Poly	APOC22-A Anti-Human
Apolipoprotein C-II IgG, aff pure	
APOC25-N-50	Apolipoprotein C-II, Human Plasma,
VLDL	
Rabbit-Poly	APOC32-A Anti-Human
Apolipoprotein C-III IgG, aff pure	
APOC35-N-50	Apolipoprotein C-III, Human
Plasma, VLDL	
Goat-PolyAPOE11-S	Anti-Human ApoE protein antiserum
#1	
Mouse-Mono	APOE12-M Monoclonal Anti-Human
ApoE protein IgG #2	
Rabbit-Poly	APOE13-A Anti-Human Plasma
Apolipoprotein E (ApoE) IgG, aff pure	
APOE15-R	Human Purified native plasma
Apolipoprotein E protein	
APOE25-R	Recombinant Purified Human
Apolipoprotein E2 protein	
Rabbit-Poly	APOE31-S Anti-Human ApoE3
APOE35-R	Recombinant Purified Human
Apolipoprotein E3 protein	
APOE36-R	Recombinant (E coli) Purified
KAL15-N-50	100129A