Product Datasheet

Product:	Dog Prorenin, C-terminal 8x His tag
Catalog Number:	IDPREN-HIS
Lot Number:	209
Description:	Recombinantly produced in HEK cell culture and purified by chelated metal affinity chromatography. Contains a 8X-Histidine tag at C terminus for purification. Resistant to activation to renin by trypsin digestion. Prorenin is a glycosylated aspartic protease that consists of 2 homologous lobes and is the precursor of renin. Prorenin exhibits a low level of enzymatic activity relative to renin which is generated from prorenin by proteolytic cleavage of the first ~43 amino acids at the N-terminus. This so called prosegment appears to block the full enzymatic potential of the active site (1). Renin activates the renin-angiotensin system by cleaving angiotensinogen, produced by the liver, to yield angiotensin I, which is further converted into angiotensin II by ACE, the angiotensin-converting enzyme primarily within the capillaries of the lungs. It has been reported that the levels of circulating prorenin (but not renin) are increased in diabetic subjects(2).
Aliquot:	1 x 0.1 mg
Concentration:	1.7 mg/ml
Volume:	0.058 ml
Molecular Weight:	41,711
Buffer:	50 mM Tris; pH 8.0
Storage:	-70 C
Form:	Frozen liquid

1) A.H. Jan Danser; Jaap Deinum ; Renin, Prorenin and the Putative (Pro)renin Receptor). Hypertension. 2005;46:1069.

2) Luetscher JA, Kraemer FB, Wilson DM, Schwartz HC, Bryer-Ash M. Increased plasma inactive renin in diabetes mellitus. A marker of microvascular complications. N Engl J Med. 1985;312:1412–1417.

Source: Human Embryonic Kidney cells

For In Vitro laboratory use only

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