

REN, 24-406aa, Human, His tag, Baculovirus

Cat.NO.: TP03711

3th Edition

Synonyms:Renin , REN, HNFJ2, Angiotensin forming enzyme, Angiotensin forming enzyme precursor, Angiotensinogenase, Angiotensinogenase precursor, FLJ10761, HNFJ2, REN, Ren1, RENI_HUMAN, Renin, Renin precursor renal.

Description:REN, also known as renin, is a member of the peptidase A1 family. It is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. It is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney. Recombinant human REN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:43.3kDa (391aa), 40-57kDa (SDS-PAGE under reducing conditions)

Sequences:

LPTDTTTTKRIFLKRMPSIRESLSKERGVDMARLGPEWSQPMKRLTLGNTTSSVILTNYMDTQYYGEIGIGTPPQTFK
VVFDTGSSNVWVPSSKCSRLYTACVYHKLFDASDSSSYKHNGTELTLYSTGTVSGFLSQDIITVGGITVTQMFGEV
TEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIFDNIISQGVLKEDVFSFYNNRDSSENSQSLGGQIVLGGSDPQHYESG
NFHYINLIKTVWQIQMKGVS SVGSSTLLCEDGCLALVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLP
DISFHLGGKEYTLTSADYVFQESYSSKKLCTLAIHAMDIPPTGPTWALGATFIRKIFYTEFDRRNNRIGFALARLEHH
HHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.