

Product information

Renin-1, 22-402aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3224

NCBI Accession No.: NP_112469

Synonyms: Ren1, Ren, Ren-A, Ren1c, Ren1d, Rn-1, Rnr, Angiotensinogenase, Kidney renin

Description: REN1, also known as Renin-1, 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. Androgen and thyroid hormones influence levels of Renin-1 in mouse submandibular gland (SMG) primarily by regulating the amount of Renin-1 mRNA available for translation. This protein 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. Also, REN1 was found to be co localized with the lysosomal marker, beta-glucuronidase, by double-fluorescent labeling. Recombinant mouse REN1, 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.

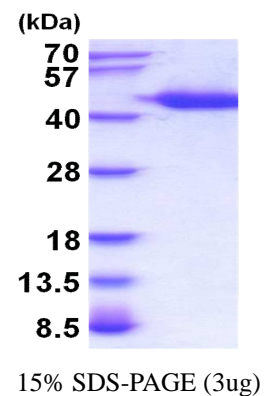
Molecular Weight: 42.5kDa (387aa)
40-57KDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Leu22

Purity: > 95% by SDS – PAGE.

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

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



Sequences of amino acids:

LPTRTATFER IPLKKMPSVR EILEERGVDM TRLSAEWGVF TKRPSLTNLT SPVVLTNLYLN TQYYGEIGIG TPPQTFKVI F DTGSANLWVP
STKCSRLYLA CGIHSLYESS DSSSYMENG S DFTIHYGSGR VKGFLSQDSV TVGGITVTQT FGEVTELPLI PFMLAKFDGV LGMGFPAQAV
GGVTPVFDHI LSQGV LKEEV FSVYYNRGSH LLGGEVVLGG SDPQHYQGNF HYVVISKTDS WQITMKGVSV GSSTLLCEEG CAVVVDTGSS
FISAPTSSLK LIMQALGAKE KRIIEEYVNC SQVPTLPDIS FDLGGRAYTL SSTDYVLQYP NRRDKLCTLA LHAMDIPPT GPVWVLGATF
IRKFYTEFDR HNNRIGFALA RHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com

Product information

General references:

Ramkumar N., *et al.* (2013) *Am. J. Hypertens.* 26(8):965-972.

Bandulik S., *et al.* (2013) *Endocrinology* 154(8):2712-2722.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com