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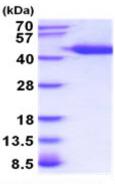
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AR51979PU-S Mouse Renin-1 (22-402, His-tag) - Purified

| Alternate names: | Angiotensinogenase, Kidney renin, Ren, Ren-A, Ren1, Ren1c, Ren1d, Rn-1, Rnr |
|-------------------|--|
| Quantity: | 20 µg |
| Concentration: | 0.25 mg/ml (determined by absorbance at 280nm) |
| Background: | 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 mR 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. Recombint mouse REN1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventiol chromatography techniques. |
| Uniprot ID: | <u>P06281</u> |
| NCBI: | <u>NP_112469</u> |
| GenelD: | <u>19701</u> |
| Species: | Mouse |
| Source: | Insect cells |
| Format: | State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol. Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method) |
| Description: | AA Sequence: LPTRTATFER IPLKKMPSVR EILEERGVDM TRLSAEWGVF TKRPSLTNLT SPVVLTNYLN TQYYGEIGIG TPPQTFKVIF DTGSANLWVP STKCSRLYLA CGIHSLYESS DSSSYMENGS DFTIHYGSGR VKGFLSQDSV TVGGITVTQT FGEVTELPLI PFMLAKFDGV LGMGFPAQAV GGVTPVFDHI LSQGVLKEEV FSVYYNRGSH LLGGEVVLGG SDPQHYQGNF HYVSISKTDS WQITMKGVSV GSSTLLCEEG CAVVVDTGSS FISAPTSSLK LIMQALGAKE KRIEEYVVNC SQVPTLPDIS FDLGGRAYTL SSTDYVLQYP NRRDKLCTLA LHAMDIPPPT GPVWVLGATF IRKFYTEFDR HNNRIGFALA RHHHHH Molecularweight: 42.5 kDa (387aa) |
| Storage: | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | Ramkumar N., et al. (2013) Am. J. Hypertens. 26(8):965-972. Bandulik S., et al. (2013) Endocrinology 154(8):2712-2722. |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request. **Pictures:**



15% SDS-PAGE (3ug)

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