

Recombinant Mouse REN1 Protein

Cat. No. REN1-809M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse REN1 protein without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	402
Description	Enables endopeptidase activity. Acts upstream of or within with a positive effect on regulation of blood pressure. Acts upstream of or within several processes, including drinking behavior; male gonad development; and regulation of systemic arterial blood pressure by renin-angiotensin. Located in extracellular space. Is expressed in several structures, including alimentary system; brain; extraembryonic component; genitourinary system; and trunk. Human ortholog(s) of this gene implicated in essential hypertension; familial juvenile hyperuricemic nephropathy; hand, foot and mouth disease; hypertension; and portal hypertension. Orthologous to human REN (renin).
Form	Lyophilized
Molecular Mass	43.2 kDa
AA Sequence	MDRRRMPLWALLLLWSPCTFSLPTRTATFERIPLKKMPSVREILEERGVDMTRLSAE WGVFTKRPSLTNLTSPVVLNTNYLNTQYYGEIGITPPQTFKVIFDTGSANLWVPSTKC SRLYLACGIHSLYESSDSSSYMENGSDFTIHYGSGRVKGFSLQDSVTVGGITVTQTF

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GEVTELPLIPFMLAKFDGVLGMGFPAQAVGGVTPVFDHILSQGVLKEEVFSVYYNRRG
 SHLLGGEVVLGGSDPQHYQGNFHYVSISKTDQITMKGVSVGSSTLLCEECAVV
 VDTGSSFISAPTSSLKLIMQALGAKEKRIEYVVNCSQVPTLPDISFDLGGGRAYTLSS
 DYVLQYPNRRDKLCTLALHAMDIPPPTGPVWVLGATFIRKIFYTEFDRHNNRIGFALA
 R

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name Ren1 renin 1 structural [*Mus musculus* (house mouse)]

Official Symbol REN1

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Synonyms	REN1; renin 1 structural; renin-1; renin b; kidney renin; aspartyl-protease; angiotensinogenase; Ren; Rnr; Rn-1; Ren-1; Ren-A; Ren1c; Ren1d; D19352;
Gene ID	19701
mRNA Refseq	NM_031192
Protein Refseq	NP_112469
UniProt ID	P06281

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