

Product datasheet for **TP727727**

Ren1 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Renin (C-10His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Leu22-Arg402
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Renin is produced by our Mammalian expression system and the target gene encoding Leu22-Arg402 is expressed with a 10His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	19701
UniProt ID:	P06281
Summary:	Mouse Renin, also known as Renin-1, is a member of the peptidase A1 family. Renin is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. It cleaves angiotensinogen to generate angiotensin I, which can be further converted by angiotensin converting enzyme (ACE) to angiotensin II. Angiotensin II is the active molecule of the renin-angiotensin system that acts by binding to angiotensin receptors type 1 and 2 (AT1 and AT2), and has direct pathophysiological effects on the heart and peripheral vasculature. After secretion, inactive prorenin can be proteolytically activated by trypsin, cathepsin B, or other proteinases.



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