

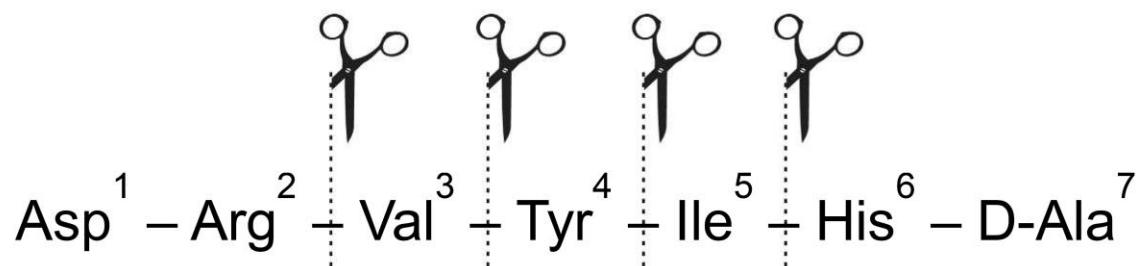
SUPPLEMENTARY DATA

Supplementary Table S1. Peptides generated after incubation of A779 with neprilysin for up to 48 hours.

	0 h	24 h	48 h
A779-(1-7)	100	7.2	0
A779-(1-2)	0	12.8	22.0
A779-(1-3)	0	0.6	0.2
A779-(1-4)	0	5.9	3.1
A779-(3-4)	0	18.5	23.3
A779-(4-7)	0	0.6	0.1
A779-(5-7)	0	53.9	50.8
A779-(6-7)	0	0.5	0.5
Data are extraction ion current (EIC) areas for each peptide expressed as percent of total ion count.			

SUPPLEMENTARY DATA

Supplementary Figure S1. Neprilysin cleaves A779 at four sites.



SUPPLEMENTARY DATA

Supplementary Figure S2. The MasR antagonist, A779, promotes insulin secretion in islets expressing neprilysin. Insulin secretion in response to 2.8 mM or 20 mM glucose from C57BL/6.NEP^{+/+} islets after 48-hour culture in the absence or presence of 1 μ M A779. Data are mean \pm SEM. *p<0.05 vs vehicle; n=11.



SUPPLEMENTARY DATA

Supplementary Figure S3. Short-term exposure to Ang-(1-7) or Ang-(1-2) does not potentiate GSIS. Insulin secretion from C57BL/6.NEP^{+/+} (A; n=6) and C57BL/6.NEP^{-/-} (B; n=6) islets in response to 1-hour exposure to 2.8 mM or 20 mM glucose in the absence or presence of 1 nM angiotensin-(1-7) or 1 nM angiotensin-(1-2). Data are mean \pm SEM.

