Figure 1a

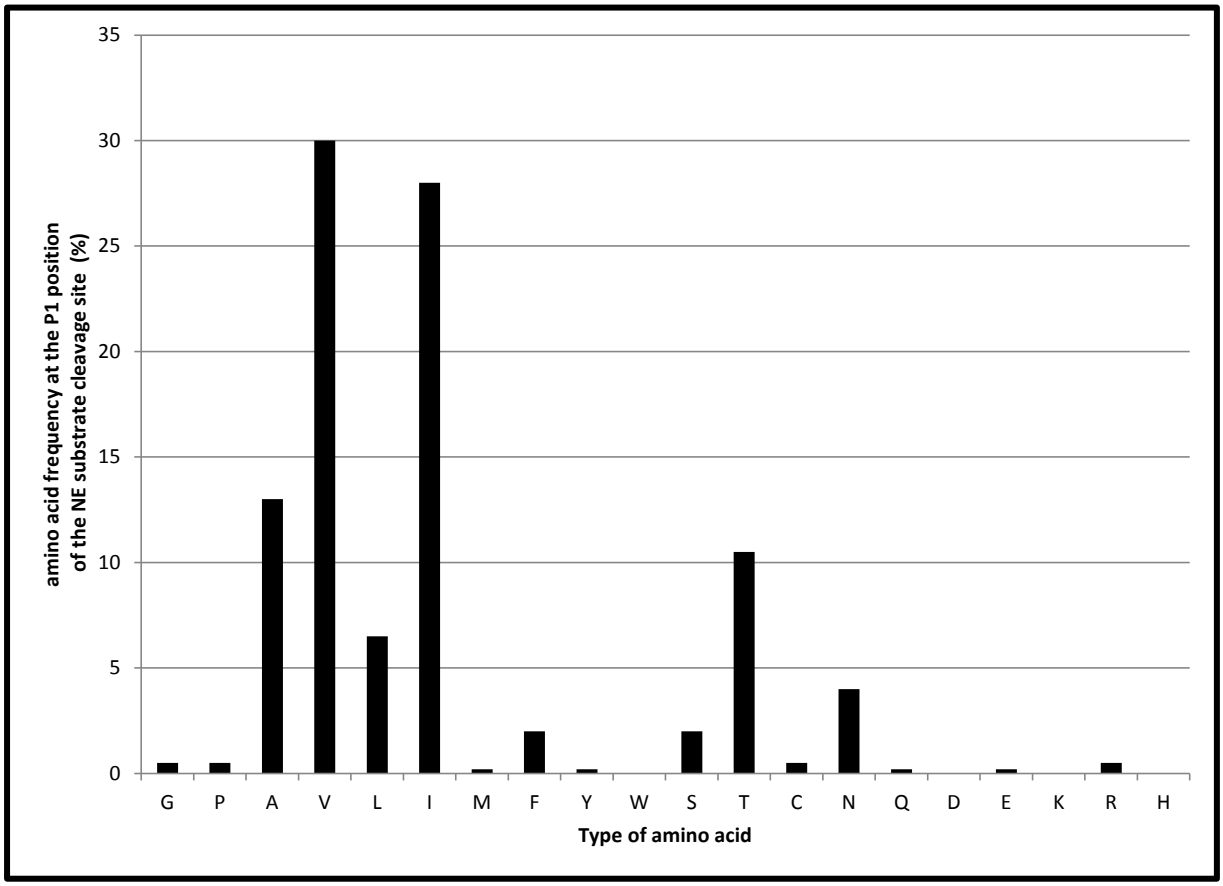

Figure 1. The relative amino acids frequency at the P1 position of NE cleavage sites was determined using the MEROPS database (https://merops.sanger.ac.uk/). Gly (G) was selected to replace the Ser [15] and Ala[16] residues at the P1 position in the cleavage sites of SLPI by NE as Gly is rarely found at the P1 position of NE substrates.

Figure 1B

SLPI-WT

1 10 20 30 40 50 60 70 80 90 100
SGKSFKAGVCPPKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDPVDTPNPTRRKPGKCPVTYGQCLMLNPPNFCEMDGQCKRDLKCCMGMCGKSCVSPVKA

NE cleavage sites

SLPI-A16G

1 10 20 30 40 50 60 70 80 90 100
SGKSFKAGVCPPKKS**G**QCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDPVDTPNPTRRKPGKCPVTYGQCLMLNPPNFCEMDGQCKRDLKCCMGMCGKSCVSPVKA

SLPI-S15G-A16G

1 10 20 30 40 50 60 70 80 90 100
SGKSFKAGVCPPKK**GG**QCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDPVDTPNPTRRKPGKCPVTYGQCLMLNPPNFCEMDGQCKRDLKCCMGMCGKSCVSPVKA

Figure 1. **(B)** The positions of NE cleavage sites in SLPI are indicated by the arrows between Ser^{15}-Ala^{16} and between Ala^{16}-Gln^{17}. The cleavage sites were mutated to Gly^{16}-Gln^{17} for SLPI-A16G and Gly^{15}-Gly^{16} for SLPI-S15G-A16G. The mutations are indicated in underlined bold type.