

TABLE II

*Mean size of peptides generated by the proteasome*

The values in the table are means  $\pm$  S.E. of at least three experiments (for the acid hydrolysis method) or two experiments (for the two rates method). In the two rates method, the mean size was determined by dividing the number of amino acids in a protein by the number of cuts plus one (see Table 1 and Fig. 1). In the acid hydrolysis method, the pooled products were hydrolyzed to amino acids, and mean peptide size was obtained by dividing the amount of amino acids after acid hydrolysis by the amount of peptides before it (Fig. 1).

Substrate	Mean size		
	Two rates method	Acid hydrolysis method	Size-exclusion chromatography
Alkaline phosphatase	6.5 $\pm$ 0.5	9.3 $\pm$ 1.0	10.2
Casein	10.6 $\pm$ 2.1	9.0 $\pm$ 1.3	11.2
Lactalbumin	8.1 $\pm$ 0.5	7.7 $\pm$ 1.4	9.1
IGF	5.9 $\pm$ 0.8	6.7 $\pm$ 0.3	7.0
Average	7.8 $\pm$ 1.8	8.2 $\pm$ 1.0	9.4