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2 **Supplementary Figure 1.** Experimental protocols in pine nut-sensitized mice. (A) *Ex vivo*  
 3 splenocyte experiments. Six-week-old female C57BL/6 mice (n = 5) were orally sensitized with  
 4 pine nut protein (PI; 5 mg protein/mouse) plus cholera toxin (CT; 10 µg) for 3 consecutive days  
 5 during the first week, and once per week during the following 5 weeks. Mice were euthanized  
 6 and spleens were collected for splenocyte culture and stimulation. (B) *In vivo* oral treatment and  
 7 challenge. Mice (n = 5/group) were sensitized as in (A), while sham-sensitized controls received  
 8 CT only. One week after the last sensitization dose, PI-sensitized mice were orally treated three  
 9 times per week for 3 weeks with PBS, PI (5 mg protein/mouse), or the trypsin hydrolysate (T; 5  
 10 mg protein-equivalent/mouse), as indicated. Three days after the last treatment dose, all groups  
 11 were orally challenged with PI (50 mg protein/mouse). Anaphylactic responses were assessed by  
 12 rectal temperature and clinical score 30 min after challenge; blood was collected for PI-specific  
 13 IgE/IgG1 and MCP-1 analyses.