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<b>Product Name</b>	: Aprotinin	RPDFCLEPPYTGPKARIIRYFYNAKAGLC QTFVYGGCRAKRNNFKSAEDCMRTCGGA
<b>Cat. No.</b>	: PC-38253	1. Fritz H, et al. Arzneimittelforschung. 1983;33(4):479-94.
<b>CAS No.</b>	: 9087-70-1	2. Sabbagh MJ, et al. J Cardiovasc Pharmacol. 2008 Oct;52(4):355-62.
<b>Molecular Formula</b>	: C <sub>284</sub> H <sub>432</sub> N <sub>84</sub> O <sub>79</sub> S <sub>7</sub>	
<b>Molecular Weight</b>	: 6511	
<b>Target</b>	: Other Targets	
<b>Solubility</b>	: 10 mM in DMSO 10 mM in H <sub>2</sub> O	

### Biological Activity

Aprotinin is a single chain polypeptide isolated from bovine lung with antifibrinolytic and anti-inflammatory activities, inhibits **trypsin** and **chymotrypsin** with  $K_i$  of 0.06 pM and 9 nM respectively.

As a broad-spectrum serine protease inhibitor, aprotinin bovine competitively and reversibly inhibits the activity of a number of different esterases and proteases, including trypsin, chymotrypsin, kallikrein, plasmin, tissue plasminogen activator, and tissue and leukocytic proteinases, resulting in attenuation of the systemic inflammatory response (SIR), fibrinolysis, and thrombin generation.

Aprotinin also inhibits pro-inflammatory cytokine release and maintains glycoprotein homeostasis.

### References

