

Product Name : Aprotinin
Cat. No. : PC-38253
CAS No. : 9087-70-1
Molecular Formula : C₂₈₄H₄₃₂N₈₄O₇₉S₇
Molecular Weight : 6511
Target : Other Targets
Solubility : 10 mM in DMSO 10 mM in H₂O

RPDFCLEPPYTGPCKARIIRYFYNAKAGLC
QTFVYGGCRAKRNNFKSAEDCMRTCGGA

1. Fritz H, et al. *Arzneim ittefforschung*. 1983;33(4):479-94.
2. Sabbagh MJ, et al. *J Cardiovasc Pharmacol*. 2008 Oct;52(4):355-62.

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

