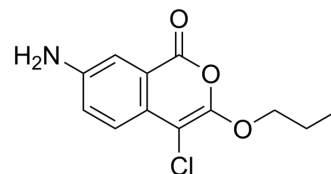


JCP174

Cat. No.:	HY-118621
CAS No.:	126062-19-9
Molecular Formula:	C ₁₂ H ₁₂ ClNO ₃
Molecular Weight:	253.68
Target:	Elastase; Parasite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

JCP174 is an inhibitor of palmitoyl protein thioesterase-1 (TgPPT1), a depalmitoylase in the parasite *T. gondii*^[1]. JCP174 is also an inhibitor of porcine pancreatic elastase and human leukocyte elastase^{[2][3]}.

REFERENCES

- [1]. Child MA, et al. Small-molecule inhibition of a depalmitoylase enhances *Toxoplasma* host-cell invasion. *Nat Chem Biol*. 2013 Oct;9(10):651-6.
- [2]. Powers JC, et al. Reaction of porcine pancreatic elastase with 7-substituted 3-alkoxy-4-chloroisocoumarins: design of potent inhibitors using the crystal structure of the complex formed with 4-chloro-3-ethoxy-7-guanidinoisocoumarin. *Biochemistry*. 1990 Mar 27;29(12):3108-18.
- [3]. Kerrigan JE, et al. Mechanism-based isocoumarin inhibitors for human leukocyte elastase. Effect of the 7-amino substituent and 3-alkoxy group in 3-alkoxy-7-amino-4-chloroisocoumarins on inhibitory potency. *J Med Chem*. 1995 Feb 3;38(3):544-52.

Caution: Product has not been fully validated for medical applications. For research use only.

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