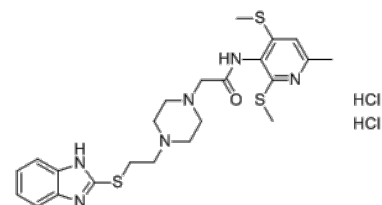


**Product Name** : K-604  
**Cat. No.** : PC-62954  
**CAS No.** : 217094-32-1  
**Molecular Formula** : C<sub>23</sub>H<sub>32</sub>Cl<sub>2</sub>N<sub>6</sub>OS<sub>3</sub>  
**Molecular Weight** : 575.63  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

K-604 is a potent, selective and competitive **ACAT-1** inhibitor with IC<sub>50</sub> of 0.45 μM for human ACAT-1, displays 229-fold selectivity over ACAT-2.

K-604 inhibits cholesterol esterification in human monocyte-derived macrophages with IC<sub>50</sub> of 60 nM, enhances cholesterol efflux from THP-1 macrophages to HDL3 or apolipoprotein A-I.

K-604 suppresses the development of atherosclerosis in an animal model without affecting plasma cholesterol levels.

## References

Ikenoya M, et al. *Atherosclerosis*. 2007 Apr;191(2):290-7.

Shibuya Y, et al. *J Neurosci*. 2014 Oct 22;34(43):14484-501.

Yoshinaka Y, et al. *Atherosclerosis*. 2010 Nov;213(1):85-91.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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