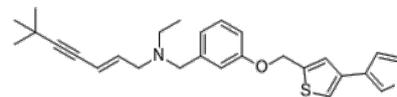


Product Name : NB-598
Cat. No. : PC-23586
CAS No. : 131060-14-5
Molecular Formula : C₂₇H₃₁NOS₂
Molecular Weight : 449.67
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

NB-598 (NB598) is a potent competitive inhibitor of squalene epoxidase (SQLE, SE, squalene monooxygenase) with IC₅₀ of 4.4 nM (rat SE), inhibits microsomal squalene epoxidase from dog liver and Hep G2 cells with IC₅₀ of 2.0 and 0.75 nM, respectively.

NB-598 also strongly inhibited cholesterol synthesis from [14C]acetate in Hep G2 cells with an IC₅₀ value of 3.4 nM.

NB-598 inhibited cholesterol synthesis from [14C]acetate dose dependently in Hep G2 cells and increased the intracellular radioactivity of squalene.

A single oral administration of NB-598 inhibited cholesterol synthesis from [14C]acetate in rats.

Multiple oral administration of NB-598 to dogs decreased serum total and low density lipoprotein cholesterol levels and increased serum squalene levels.

References

Nakamura Y, et al. J Biol Chem. 1996 Apr 5;271(14):8053-6.

Horie M, et al. J Biol Chem. 1990 Oct 25;265(30):18075-8.

Hidaka Y, et al. J Biol Chem. 1991 Jul 15;266(20):13171-7.

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

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