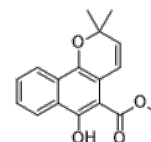


Product Name : Rubimaillin
Cat. No. : PC-27671
CAS No. : 55481-88-4
Molecular Formula : C₁₇H₁₆O₄
Molecular Weight : 284.31
Target : HBV
Solubility : 10 mM in DMSO



Biological Activity

Rubimaillin (Mollugin) is a naphthohydroquinone isolated from the Chinese medical plant *Rubia cordifolia*, strongly suppresses the secretion of hepatitis B surface antigen (**HBsAg**) with IC₅₀ of 2 ug/mL in human hepatoma Hep3B cells, selectively inhibits **cholesteryl ester synthesis** with IC₅₀ of 18 uM.

Rubimaillin (Mollugin) inhibits acyl-CoA:cholesterol acyltransferase (ACAT1) activity in ACAT1-expressing cells with IC₅₀ of 80 uM.

Rubimaillin (Mollugin) inhibits macrophage ACAT activity in order to decrease cholesteryl ester (CE) synthesis, leading to a reduction in the number of lipid droplets.

Rubimaillin (Mollugin) inhibits the ACAT2 isozyme in ACAT2-expressing cells with IC₅₀ of 22 uM.

Rubimaillin (Mollugin) exhibits antimutagenic activity, antitumor activity, antiviral activity, and inhibitory activity in arachidonic acid- and collagen-induced platelet aggregation.

References

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Ho LK, et al. *J Nat Prod.* 1996 Mar;59(3):330-3.

Jeong GS, et al. *Eur J Pharmacol.* 2011 Mar 11;654(3):226-34.

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

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