
Product Data Sheet

Product Name: Acenocoumarol

Cat. No.: GC32514

Chemical Properties

Cas. No. 152-72-7

SMILES O=C1C(C(C2=CC=C([N+](O-)=O)C=C2)CC(C)=O)=C(O)C3=CC=CC=C3O1Formula C₁₉H₁₅NO₆

M.Wt 353.33

Solubility DMSO: 100 mg/mL (283.02 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Acenocoumarol is an anticoagulant and vitamin K antagonist.¹ It inhibits the reduction of vitamin K₁ epoxide to vitamin K₁ by vitamin K₁ epoxide reductase (VKOR) (IC₅₀ = 1.5 and 5.8 nM for VKORC1 and VKORC1L1, respectively).¹ Acenocoumarol also inhibits a variety of VKOR mutants in cell-based reporter assays (IC₅₀s = 0.54-11.21 nM).² It prolongs prothrombin time in rat blood when administered at a dose of 1.5 mg/kg.³

1.Czogalla, K.J., Liphardt, K., H?ning, K., et al.VKORC1 and VKORC1L1 have distinctly different oral anticoagulant dose-response characteristics and binding sitesBlood Adv.2(6)691-702(2018) 2.Chen, X., Jin, D.-Y., Stafford, D.W., et al.Evaluation of oral anticoagulants with vitamin K epoxide reductase in its native milieuBlood132(18)1974-1984(2018) 3.Meinertz, T., Kasper, W., Kahl, C., et al.Anticoagulant activity of the enantiomers of acenocoumarolBr. J. Clin. Pharmacol.5(2)187-188(1978)

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

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