

(R)-Acenocoumarol

Chemical Properties

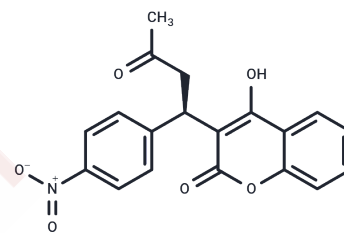
CAS No. : 66556-77-2

Formula: C₁₉H₁₅NO₆

Molecular Weight: 353.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(R)-Acenocoumarol ((R)-Acenocoumarin; (R)-Nicoumalone) is a short-acting, orally administered anticoagulant that works by inhibiting vitamin K epoxide reductase (vitamin K1 recycling), similar to Warfarin. It demonstrates greater anticoagulant potency in vivo compared to Warfarin. This compound has a single chiral center, resulting in two enantiomeric forms. The (R)-enantiomer has a longer plasma elimination half-life of 6.6 hours, slower plasma clearance of 1.9 L/h, and stronger anticoagulation effects than the (S)-enantiomer.
Targets(IC50)	Vitamin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8302 mL	14.1511 mL	28.3022 mL
5 mM	0.566 mL	2.8302 mL	5.6604 mL
10 mM	0.283 mL	1.4151 mL	2.8302 mL
50 mM	0.0566 mL	0.283 mL	0.566 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481