

Thalifendine

Chemical Properties

CAS No. : 18207-71-1

Formula: C₁₉H₁₆NO₄

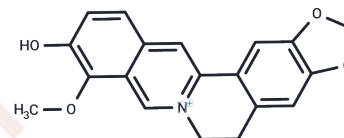
Molecular Weight: 322.34

Storage:

Keep away from direct sunlight, Store at low temperature

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	Thalifendine is one of the main products of Berberine demethylation catalyzed by CYP51 (secreted by intestinal flora), which has anti-inflammatory effects, reduces intestinal inflammation, improves intestinal barrier function, and reduces the production of inflammatory factors.
Targets(IC50)	Cytochromes P450
In vitro	Thalifendine showed metabolism-dependent inhibition of CYP2D6 in human liver microsomes, with the IC ₅₀ decreasing from 20.6 μM to 6.49 μM after preincubation, indicating moderate inhibitory activity weaker than that of berberine[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1023 mL	15.5116 mL	31.0231 mL
5 mM	0.6205 mL	3.1023 mL	6.2046 mL
10 mM	0.3102 mL	1.5512 mL	3.1023 mL
50 mM	0.062 mL	0.3102 mL	0.6205 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.

Reference

Kim HG, et al. Quasi-Irreversible Inhibition of CYP2D6 by Berberine. *Pharmaceutics*. 2020 Sep 24;12(10):916.

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