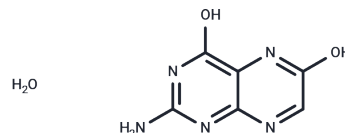


Xanthopterin (hydrate)

Chemical Properties

CAS No. :	5979-01-1
Formula:	C ₆ H ₇ N ₅ O ₃
Molecular Weight:	197.15
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Xanthopterin Hydrate is isolated from butterfly wings and could replace folic acid in the nutrition of many animal species.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	Human mammary carcinoma MCF-7 cell line responsiveness to the pteridines xanthopterin and isoxanthopterin was studied using the MTS assay for measurement of cell viability. The pteridines were tested at concentrations ranging from 7.8 to 500 µM singly and in 11 isoxanthopterin:xanthopterin ratios. IC50s of xanthopterin and isoxanthopterin were 109±13 µM (mean±SEM of y estimate) and 103±9 µM, respectively.

Solubility Information

Solubility	DMSO: 4 mg/mL (20.29 mM),Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0723 mL	25.3614 mL	50.7228 mL
5 mM	1.0145 mL	5.0723 mL	10.1446 mL
10 mM	0.5072 mL	2.5361 mL	5.0723 mL
50 mM	0.1014 mL	0.5072 mL	1.0145 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.

Reference

Jean, L, Lord, et al. Cytotoxicity of xanthopterin and isoxanthopterin in MCF-7 cells[J]. Cancer Letters, 2005, 222(1): 119-124.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481