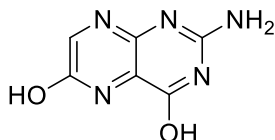


Xanthopterin

Code No.: **BIA-X2595**

Pack sizes: **1 mg, 5 mg**



Synonyms : 2-Aminopteridine-4,6-diol, 6-Hydroxy-2-amino-4-hydroxypteridine, NSC 41836, NSC 91557

Specifications

CAS #	: 119-44-8
Molecular Formula	: C₆H₅N₅O₂
Molecular Weight	: 179.14
Source	: Lepidoptera
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Xanthopterin is a yellow pigment that has long been known as a metabolite of wasps and butterflies. Xanthopterin inhibits proliferation of primary renal proximal tubule and LLC-PK cells while in a growth phase and malignant human prostate PC-3 cells in a concentration and time dependent manner. Differential effects on cell growth were seen dependent upon the cell origin and their state of proliferation. Xanthopterin is a biomarker for human liver disease.

References

1. Über das vorkommen der pterin in wespenn und schmetterlungen und über einige neue beobachtungen am leukopterin und xanthopterin. Schopf. C. et al. Justus Liebigs Ann Chem. 1933, 507, 266.
2. Differential effect of xanthopterin and bipterin on cell growth. Rubenstein M. et al. Int J Biochem. 1993, 25, 1873.
3. A comparative study of urinary xanthopterin and neopterin in liver diseases. Fukuda A. et al. Eur J Clin Chem Clin Biochem. 1993, 31, 129.