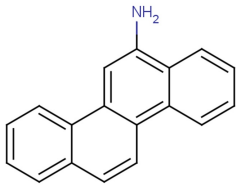
Data Sheet (Cat.No.T13519)

TargetMol
A DRUG SCREENING EXPERT

6-Aminochrysene

Chemical Properties



CAS No.:	2642-98-0
Formula:	C18H13N
Molecular Weight:	243.3
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	6-Aminochrysene (6-Aminochrysene) is used as a chemotherapeutic agent in the treatment of myeloid leukemia, splenomegaly, and breast cancer.
Targets(IC_{50})	Others: None
In vitro	6-Aminochrysene inhibits the hydroxylation of aniline, 0-demethylation of p-nitroanisole, and N-demethylation of aminopyrine by rat liver microsomes. Pre-treatment of rats with 6-aminochrysene markedly decreases the N-demethylation in vitro but significantly increases the hydroxylation and the 0-demethylation [1].
In vivo	6-Aminochrysene is an inhibitor of the growth of several solid experimental tumors in vivo and has a cancerostatic effect on human breast cancer [1]. Long term topical skin application of 6-Aminochrysene to mice induces the development of benign skin tumors after 3 months and of skin malignancies after 7 months. Female mice respond earlier than males. The induction of skin tumors is more rapid when 6-Aminochrysene is applied ventrally instead of dorsally. Urinary excretion is about twice as high after skin application than after oral administration [2].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (256.88 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.11 mL	20.551 mL	41.102 mL
5 mM	0.822 mL	4.11 mL	8.22 mL
10 mM	0.411 mL	2.055 mL	4.11 mL
50 mM	0.082 mL	0.411 mL	0.822 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Russo R, et al. Effects of 6-aminochrysene on liver microsomal enzyme activity. Xenobiotica. 1976 Apr;6(4):201-5.
2. Lambelin G, et al. Carcinogenicity of 6-aminochrysene in mice. Eur J Cancer. 1975 May;11(5):327-34.

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