

Lucidin

Catalog No: tcsc1555



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

478-08-0

Formula:

$C_{15}H_{10}O_5$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

NSC 30546

Observed Molecular Weight:

270.24

Product Description

Lucidin (NSC 30546) is a natural component of *Rubia tinctorum* L. Lucidin is mutagenic in bacteria and mammalian cells.

IC50 Value:

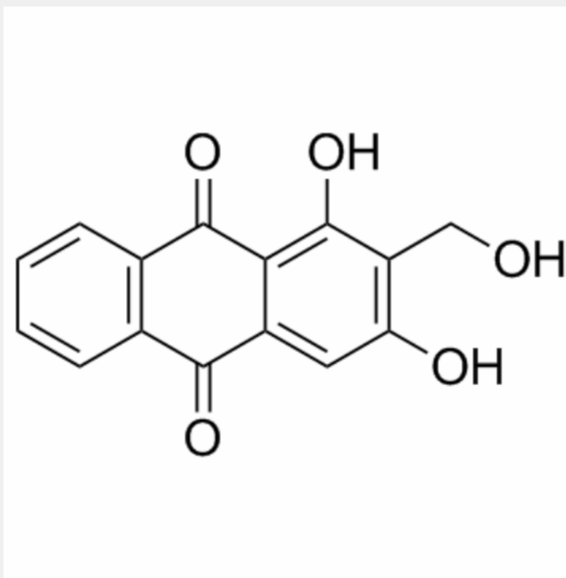
Target:

in vitro: Lucidin was mutagenic in five *Salmonella typhimurium* strains without metabolic activation, but the mutagenicity was increased after addition of rat liver S9 mix. In V79 cells, lucidin was mutagenic at the hypoxanthine-guanine phosphoribosyl transferase gene locus and active at inducing DNA single-strand breaks and DNA-protein cross-links as assayed by the alkaline elution method. Lucidin also induced DNA repair synthesis in primary rat hepatocytes and transformed C3H/M2-mouse fibroblasts in culture [1]. HPLC analysis of ³²P-labelled DNA adducts revealed a peak co-migrating with an adduct obtained after in vitro treatment of deoxyguanosine-3'-phosphate with lucidin [2].

in vivo: Dose-dependent increases in benign and malignant tumour formation were observed in the liver and kidneys of treated animals. ³²P-post-labelling analysis showed an increase in the overall level of DNA adducts observed in the liver, kidney and colon of rats treated with 10% madder root in the diet for 2 weeks [2].

Toxicity: lucidin is mutagenic in bacteria and mammalian cells [2].

Clinical trial:



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!