Product Data Sheet

Dehydrothio-p-toluidine

Cat. No.: HY-W040269

CAS No.: 92-36-4 Molecular Formula: $C_{14}H_{12}N_2S$ Molecular Weight: 240.32

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

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BIOLOGICAL ACTIVITY

DescriptionDehydrothio-p-toluidine (DHPT) is a chemical intermediate used in dyestuff production. Dehydrothio-p-toluidine shows inhalation toxicity in acute and subchronic conditions^[1].

In Vivo Dehydrothio-p-toluidine (4 h) induces salivation, pawing and chewing motions, lachrymation, sporadic fasciculations, rapid respiration and slight weight loss of mice under an average of 0.64 mg DHPT/L condition^[1].

Dehydrothio-p-toluidine (4 h) induces sporadic nasal discharge and lethargy of mice under an average of 2.41 mg DHPT/L condition^[1].

Dehydrothio-p-toluidine (6 h/day on 5 days followed by two rest days and then by five additional days of exposures; 0.6 mg DHPT/L) decreases the erythrocyte count, haemoglobin level and relative number of lymphocytes than in the controls, excrets a larger volume of less-concentrated urine, produces liver changes characterized by hepatocyte hyper trophy and proliferation of bile-duct epithelial cells and induxes thymic necrosis and depletion of lymphocytes after the tenth exposure [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kennedy GL Jr, et al. Inhalation toxicity of dehydrothio-p-toluidine. Food Chem Toxicol. 1984 Apr;22(4):289-92.

Caution: Product has not been fully validated for medical applications. For research use only.

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Inhibitors