

Product Data Sheet

Product Name: 2,2'-Dithiobis(pyridine-N-oxide)

Cat. No.: GD11161

Chemical Properties

Cas. No. 3696-28-4

Formula C₁₀H₈N₂O₂S₂

M.Wt 252.313

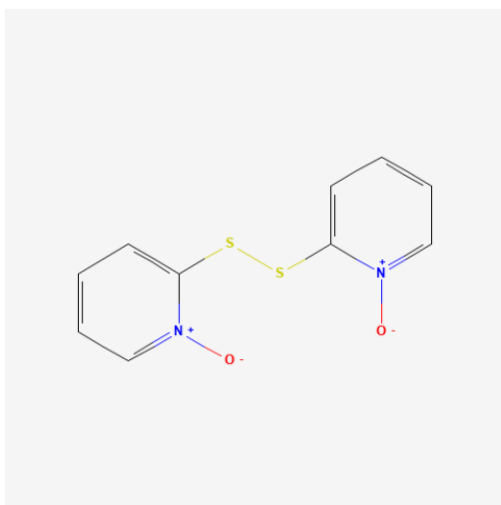
Solubility DMSO : 10 mg/mL (39.63 mM; ultrasonic and warming and heat to 60°C)

Storage Store at room temperature away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Dipyrithione is a potent antimicrobial agent. Dipyrithione shows antifungal activity and antiproliferative activity. Dipyrithione induces apoptosis and cycle arrest at G1 phase. Dipyrithione shows anti-inflammatory activity in vivo. Dipyrithione shows anti-tumor activity. Dipyrithione has the potential for the research of dermatophytosis.

Dipyrithione (20 鈇/ml) shows antifungal activity with MIC values of 6.03 鈇M for *Trichophyton*

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

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rubrum^[1].

Dipyrithione (72 h) shows cytotoxic activity against 293鈇 cells with an IC₅₀ value of 0.22 碌M^[1].

Dipyrithione (1-5 碌M; 8.5 h) inhibits LPS (100 ng/ml)-induced up-regulation of iNOS and COX-2 in RAW264.7 cells in a dose-dependent manner^[2].

Dipyrithione (1 碌M; 8.5 h) suppresses LPS-induced increase of iNOS but not COX-2 mRNA level, inhibits LPS-increased NO production^[2].

Dipyrithione (3 碌M; 2, 5 h) decreases phosphorylation of STAT1 induced by LPS and does not influence LPS-induced MAPK and NF-鈇B activation in RAW 246.7 cells^[2].

Dipyrithione (0-5 渭g/mL; 48 h) shows antiproliferative activity for KB, 231, U937 and K562 cells in a dose dependent manner^[3].

Dipyrithione (2.5 渭g/ml) induces apoptosis and cycle arrest at G1 phase^[3].

Dipyrithione (0.2 mg/cm²; externally once daily for 10 days) shows great anti-dermatophyte activity effects in guinea pig^[1].

Dipyrithione (1, 2.5, 5 mg/kg; i.p.) shows anti-inflammatory activity in mouse^[2]. Dipyrithione (5 mg/kg; i.p.; daily for 10 days) shows anti-tumor acyivity in mouse^[3].

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