
Product Data Sheet

Product Name: Pyriothioxin (Pyritinol)

Cat. No.: GC30281

Chemical Properties

Cas. No. 1098-97-1

SMILES OCC1=C(CSSCC2=C(CO)C(O)=C(C)N=C2)C=NC(C)=C1O

Formula $C_{16}H_{20}N_2O_4S_2$ M.Wt 368.47

Solubility DMSO : 60mg/mL Storage Store at -20°C

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

Pyriothioxin (Bonifen, Encefabol, Pyritinol, Vitamin B6 disulfide) is a neurotropic agent which reduces permeability of blood-brain barrier to phosphate. It has no vitamin B6 activity.

In old rats, chronic administration of pyritinol increases sensitivity to foot shock and spatial retention. It enhances passive avoidance retention in young and old animals. Acute administration of the drug to young rats reveals a dose-dependent increase in levels of adenosinetriphosphate (ATP) in blood and enhances the age-related decreased utilisation of glucose in various regions of the brain. Chronic treatment with pyritinol elevates the high-affinity uptake of choline in hippocampal and striatal synaptosomes, which is reduced by ageing[1].

[1] Hartmann H, et al. Neuropharmacology. 1993, 32(2):119-25.

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

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