

Product Data Sheet

Product Name: D-Biopterin

Cat. No.: GC49181

Chemical Properties

Cas. No. 13039-62-8

SMILES O=C1C2=NC([C@H](O)[C@H](O)C)=CNC2=NC(N)=N1

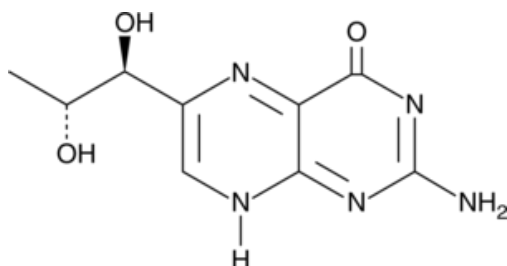
Formula C₉H₁₁N₅O₃ M.Wt 237.2

Solubility DMSO: soluble, Ethanol: soluble Storage -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

D-Biopterin is an enantiomer of L-biopterin, an oxidized form of the nitric oxide synthase (NOS) cofactor tetrahydro-L-biopterin.^{1,2}

1. Ohue, T., Koshimura, K., Akiyama, Y., et al. Monoamine-mediated enhancement of acetylcholine release in rat hippocampus by 6R-L-erythro-5,6,7,8-tetrahydrobiopterin. *Brain Res.* 570(1-2):173-179 (1992)
2. Gorren, A.C.F., and Mayer, B. Tetrahydrobiopterin in nitric oxide synthesis: A novel biological role for pteridines. *Curr. Drug Metab.* 3(2):133-157 (2002)

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

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