
Product Data Sheet

Product Name: Acetyl-6-formylpterin

Cat. No.: GC18443

Chemical Properties

Cas. No. 29769-49-1

Chemical Name N-(6-formyl-3,4-dihydro-4-oxo-2-pteridinyl)-acetamide

SMILES CC(NC(N1)=NC(N=CC(C=O)=N2)=C2C1=O)=OFormula C₉H₇N₅O₃

M.Wt 233.2

Solubility DMF: 50 mg/ml, Ethanol: 1 mg/ml, PBS (pH 7.2): 0.1 mg/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**

Acetyl-6-formylpterin is an inhibitor of mucosal-associated invariant T (MAIT) cell activation. It dose-dependently increases the surface expression of MHC-related 1 (Mr1) in WT3 cells overexpressing Mr1 (WT3-m) following incubation with E. coli but does not activate MAIT cells cocultured with WT3-m cells when used at concentrations ranging from 0.23-15 μM. Acetyl-6-formylpterin is also a degradation product of folic acid and a precursor in the synthesis of 2'-hydroxy-7,8-dihydrofolate, which is a metabolite of para-aminosalicylic acid (PAS) in M. tuberculosis.

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

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