PRODUCT INFORMATION

6,7-dimethyl-5,6,7,8-Tetrahydropterin (hydrochloride)
Item No. 21050

CAS Registry No.: 945-43-7
Formal Name: 2-amino-5,6,7,8-tetrahydro-6,7-dimethyl-4(3H)-pteridinone, monohydrochloride
Synonyms: DMPH₄, NSC 87950
MF: C₈H₁₃N₅O • HCl
FW: 231.7
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \): 218, 266 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

6,7-dimethyl-5,6,7,8-Tetrahydropterin (hydrochloride) is supplied as a crystalline solid. Aqueous solutions of 6,7-dimethyl-5,6,7,8-tetrahydropterin (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 6,7-dimethyl-5,6,7,8-tetrahydropterin (hydrochloride) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

6,7-dimethyl-5,6,7,8-Tetrahydropterin is a synthetic analog of tetrahydro-L-biopterin (BH₄⁻; Item No. 81880), a required cofactor for all NOS isoforms, phenylalanine, tyrosine, and tryptophan hydroxylases, and other enzymes.¹⁻⁵

References