

Certificate of Analysis

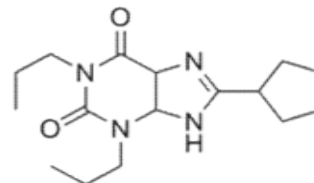


Product Identification

Catalog number HB2094
Compound name DPCPX
Chemical name 8-Cyclopentyl-1,3-dipropylxanthine

Batch number E0538-3-5
Batch molecular formula C₁₆H₂₄N₄O₂
Batch molecular weight 304.40

Chemical Structure



Method

QC requirement

QC Result

HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100% by HPLC
NMR	¹ H NMR in CDCl ₃ at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	Analysis using a solvent ratio of 90:10 DCM/MeOH with 1 drop NEt ₃ shows a single spot (visualised by UV)	Meets Specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (5 mM) and in ethanol (10 mM)	Meets specification

Biological validation

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

09-02-17

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.