CERTIFICATE OF ANALYSIS

para-TOPOLIN (pT)
$C_{12}H_{11}N_5O$, FW = 241.25

OLCHEMIM CODE: 001 045n
MANUFACTURING DATE: April 2024
CAS: 80054-30-4

OLCHEMIM BATCH: pT-C
EXPIRATION DATE: April 2034
BATCH SIZE: 4.5 g

SYNTHESIS

Condensation of 6-chloropurine and 4-hydroxybenzylamine in n-BuOH containing triethylamine. Re-crystallised twice from DMF. White crystals, free of foreign matter soluble in hot MeOH, DMF, DMSO.

ANALYSIS
MELTING POINT: 254.0-255.0 °C (Kofler block)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 85/15/3, v/v/v), Rf 0.65. Purity 98+% at 25 µg and 50 µg loading. No contaminants detected at either load including 6-chloropurine (Rf 0.40).
MASS SPECTROMETRY: Matches the reference spectrum $[M+H]^+$= 242.07 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.
HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm × 2.1 mm, 5µm) (Symmetry C18; Waters). The elution was performed with a methanolic gradient (10 mM HCOOH). The flow rate was 0.25 ml/min. The UV absorbance was scanned between 240 – 300 nm. Rt (pT) = 12.4 min, λ_{max} 270.4 nm. Purity > 99+%.

STORAGE & STABILITY
Store over silica gel in tightly sealed container at 2-8°C. No detectable decomposition after 12 months storage under these conditions.

FOR LABORATORY USE BY EXPERIENCED PERSONNEL ONLY; NOT FOR DRUG, HOUSEHOLD OR OTHER USES

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