CERTIFICATE OF ANALYSIS

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

OLCHEMIM CODE: 001 012n
OLCHEMIM BATCH: oT-B
MANUFACTURING DATE: April 2024
EXPIRATION DATE: April 2034
CAS: 20366-83-0
BATCH SIZE: 19.8 g

SYNTHESIS
Condensation of 6-chloropurine and 2-hydroxybenzylamine in n-BuOH containing triethylamine. Re-crystallised twice from DMF. White crystals, free of foreign matter soluble in hot MeOH, DMF, DMSO.

ANALYSIS
mp 264.0-265.0 °C (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo.

pH 7 (H_2O)	λ_{max} 269.3 nm (17,900)
pH 2 (≅0.1 M HCl)	λ_{max} 276.5 nm (17,800)
pH 11 (≅0.1 M NaOH)	λ_{max} 275.8 nm (17,800)
50% EtOH	λ_{max} 269.4 nm (18,200)

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 SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 242.10 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.
HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm × 4.6 mm, 5µm) (Microsorb C18; Varian). The elution was performed with a methanolic gradient. The flow rate was 0.6 ml/min. The UV absorbance was scanned between 240 – 300 nm. Rt (oT) = 17.9 min. 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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