CERTIFICATE OF ANALYSIS

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

OLCHEMIM CODE: 001 010n
OLCHEMIM BATCH: mT-G
MANUFACTURING DATE: August 2025
EXPIRATION DATE: August 2034
CAS: 75737-38-1
BATCH SIZE: 13.65 kg

SYNTHESIS

Condensation of 6-chloropurine and 3-hydroxybenzylamine in n-propanol containing triethylamine. Re-crystallised from methanol. Slightly yellowish powder, free of foreign matter, soluble in 50-80% methanol and ethanol, in DMSO, almost insoluble in water.

ANALYSIS
mp > 300 °C; dec. (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo.

H_2O	λ_{max} 269.1 nm (18,500)
0.1 M HCl	λ_{max} 273.4 nm (18,500)
0.1 M NaOH	λ_{max} 269.0 nm (18,600)
50% EtOH	λ_{max} 269.5 nm (19,300)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 8/2/0.1, v/v/v), Rf 0.43. Purity 98+% at 25 µg and 50 µg loading. No contaminants detected at either load including 6-chloropurine (Rf 0.20).

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 242.3 amu, triple 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 (10 mM HCOOH). The flow rate was 0.6 ml/min. The UV absorbance was scanned between 240 – 400 nm. Rt (mT) = 7.28 min. Purity ≥ 98.0+%.

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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