CERTIFICATE OF ANALYSIS

ortho-METHOXYTOPOLIN (MeoT)
$C_{13}H_{13}N_5O$, FW = 255.28

OLCHEMIM CODE: 001 049n
MANUFACTURING DATE: March 2025
CAS: 75737-41-6

OLCHEMIM BATCH: MeoT-B
EXPIRATION DATE: March 2034
BATCH SIZE: 30 g

SYNTHESIS

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

ANALYSIS
mp 260.0-261.0 °C (Kofler block)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 85/15/3, v/v/v), Rf 0.70. 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 $[M+H]^+$= 256.1 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 (MeoT) = 27.7 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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