CERTIFICATE OF ANALYSIS

meta-METHOXYTOPOLIN (MemT)
$C_{13}H_{13}N_5O$, FW = 255.28

OLCHEMIM CODE: 001 051n
OLCHEMIM BATCH: MemT-B
MANUFACTURING DATE: July 2024
EXPIRATION DATE: July 2033
CAS: 75737-39-2
BATCH SIZE: 639 g

SYNTHESIS
Condensation of 6-chloropurine and 3-methoxybenzylamine in n-BuOH containing triethylamine. Re-crystallised twice from DMF. White crystals, free of foreign matter soluble in DMF, DMSO.

ANALYSIS
mp 272.0-273.0 °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 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) = 28.8 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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