CERTIFICATE OF ANALYSIS

para-METHOXYTOPOLIN RIBOSIDE (MepTR)
$C_{18}H_{21}N_5O_5$, MW = 387. 40

OLCHEMIM CODE: 001 052n
OLCHEMIM BATCH: 052-A
MANUFACTURING DATE: March 2026
EXPIRATION DATE: March 2035
CAS: 23666-24-2
BATCH SIZE: 32 g

SYNTHESIS
Prepared by condensation of 6-chloropurine riboside and 4-methoxybenzylamine in n-BuOH containing triethylamine. Re-crystallised from EtOH. A white, microcrystalline solid, soluble in aqueous ethanol

ANALYSIS
MELTING POINT: sharp, 154-156°C (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo.

30 mM phosphate buffer, pH 7.2	Amax 269-271 nm (17,800)
0.1 M HCl	Amax 266 nm (18,550)
0.1 M NaOH	Amax 269-271 nm (18,300)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 80/20/1, v/v/v); Rf 0.58. Purity: single spot (at 25 µg loading). No contaminants detected, including 6-chloropurine riboside (Rf 0.39) or *ortho*-methoxybenzylaminopurine riboside detected.
MASS SPECTROMETRY: Matches the reference spectrum $[M+H]^+$= 388.4 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 (MepTR) = 38.7 min. Purity > 99,5+%.

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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