CERTIFICATE OF ANALYSIS

meta-METHOXYTOPOLIN RIBOSIDE (MemTR)
[6-(3-methoxybenzylamino)-9-β-D-ribofuranosylpurine]
$C_{18}H_{21}N_5O_5$, FW = 387. 39

OLCHEMIM CODE 001 053 OLCHEMIM BATCH: MemTR-C
MANUFACTURING DATE: September 2025 EXPIRATION DATE: September 2033
CAS: 29204-64-6 BATCH SIZE: 6.48 g

SYNTHESIS
Prepared by condensation of 6-chloropurine riboside and 3-methoxybenzylamine in n-BuOH containing triethylamine. Re-crystallised from EtOH. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: sharp, 148-149°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 0.52. Purity: single spot (at 25 μg loading). No contaminants detected, including 6-chloropurine riboside (Rf 0.35) or *ortho*-methoxybenzylaminopurine riboside detected.
MASS SPETROMETRY: 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 (MemTR) = 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

OlChemIm s.r.o., Šlechtitelů 27, P.O.Box 22, 770 10 Olomouc, Czech Republic
Tel./Fax: +420 585 427 407
email:info@olchemim.cz, OlChemIm on the Internet: http://www.olchemim.cz