CERTIFICATE OF ANALYSIS

ortho-METHOXYTOPOLIN RIBOSIDE (MeoTR)
$C_{18}H_{21}N_5O_5$, MW = 387.40

OLCHEMIM CODE: 001 050n
OLCHEMIM BATCH: MeoTR-C
MANUFACTURING DATE: October 2024
EXPIRATION DATE: October 2033
CAS: 23660-98-2
BATCH SIZE: 2 g

SYNTHESIS

Prepared by condensation of 6-chloropurine riboside and 2-methoxybenzylamine in n-BuOH containing triethylamine. Re-crystallised from MetOH. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS

MELTING POINT : 149.5-150.5°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, 80/20/3, v/v/v); Rf 0.68. Purity 98+% at 25 µg loading. No contaminants detected, including 6-chloropurine riboside (Rf 0.40)

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 (MeoTR) = 34.9 min. Purity > 99+%.

STORAGE & STABILITY

Store over silica gel in tightly sealed container at -18°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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