CERTIFICATE OF ANALYSIS

para-TOPOLIN-9-GLUCOSIDE (pT9G)

[6-(4-hydroxybenzylamino)-9-β-D-glucopyranosylpurine]

FW = 403.40

OLCHEMIM CODE: 001 040n
OLCHEMIM BATCH: pT9G-C
MANUFACTURING DATE: January 2025
EXPIRATION DATE: January 2034
CAS: 1046433-04-8
BATCH SIZE: 110 mg

SYNTHESIS

Prepared by nucleophilic substitution of 6-chloropurine-9-β-D-glucoside and 4-hydroxybenzylamine. Purified by column chromatography and re-crystallised from methanol-acetone. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: 225-228°C (Kofler block)

TLC (silica-chloroform/methanol, 2/1, v/v), Rf 0.50. No impurities detectable at 25 μg loading. Purity 98+%.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 404.05 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, λ_{max} 269.0 nm. Rt (pT9G) = 4.7 min. Purity > 98.0+%.

STORAGE & STABILITY:
ACID LABILE! HYGROSCOPIC! Store over silica gel in tightly sealed container at –18°C. No detectable decomposition after 6 months storage under these conditions.

FOR LABORATORY USE BY EXPERIENCED PERSONNEL ONLY; NOT FOR DRUG, HOUSEHOLD OR OTHER USES

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