CERTIFICATE OF ANALYSIS

meta-TOPOLIN-9-TETRAHYDROPYRANYL (mTTHP)

6-(3-hydroxybenzylamino)-9-(2-tetrahydropyranyl)purine

$C_{17}H_{19}N_5O_2$, MW = 325,37

OLCHEMIM CODE: 001 755
OLCHEMIM BATCH: 755-A
MANUFACTURING DATE: August 2024
EXPIRATION DATE: August 2033
CAS: 1144854-40-9
BATCH SIZE: 0.6 g

SYNTHESIS

Prepared by condensation of 6-chloropurine-9-(tetrahydrypyran-2-yl)purine and 3-hydroxybenzylamine in n-PrOH containing triethylamine. Re-crystallised from ethylacetate. A white, microcrystalline solid, soluble in alcohols.

ANALYSIS

MELTING POINT: 173-174 °C (Büchi melting point apparatus)

Determined after drying to constant weight over phosphorus pentoxide in vacuo.

TLC (silica-chloroform/MeOH/conc. NH_4OH, 80/20/1, v/v/v); Rf 0.75. Purity: single spot (at 25 µg loading). No contaminants detected, including 6-chloropurine-9-(tetrahydropyran-2-yl)purine (Rf 0.8) or *m*-hydroxybenzylaminopurine detected.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 326 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm x 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 > 98,0+%.

STORAGE & STABILITY

Store over silica gel in tightly sealed container at -20° 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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