CERTIFICATE OF ANALYSIS

meta-METHOXYBENZYLAMINO-9-(TETRAHYDROPYRAN-2-YL)PURINE (MemTTHP)

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

$C_{18}H_{21}N_5O_2$, MW = 339.40

OLCHEMIM CODE 001 756n
MANUFACTURING DATE: August 2023
CAS: 75737-39-2

OLCHEMIM BATCH: 756-A
EXPIRATION DATE: August 2032
BATCH SIZE: 10 g

SYNTHESIS

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

ANALYSIS

MELTING POINT: 106-108 ºC (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 0.8. Purity: single spot (at 25 µg loading). No contaminants detected, including 6-chloropurine-9-(tetrahydropyran-2-yl)purine (Rf 0.8) or *m*-methoxybenzylaminopurine detected.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 340 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) = 20.1 min. Purity > 99,9+%.

STORAGE & STABILITY

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