CERTIFICATE OF ANALYSIS

2-CHLORO-6-(3-METHOXYBENZYLAMINO)-PURINE (RR-D)
$C_{13}H_{12}ClN_5O$, FW = 289.73

OLCHEMIM CODE: 001 766n
OLCHEMIM BATCH: B-766
MANUFACTURING DATE: February 2023
EXPIRATION DATE: February 2032
CAS: 185408-93-9
BATCH SIZE: 53 G

SYNTHESIS
Condensation of 2,6-dichloropurine and 3-methoxybenzylamine hydrochloride in n-propanol containing triethylamine. Re-crystalized from methanol.
Appearance: almost white crystals, free of foreign matter, soluble in hot methanol, DMF, DMSO.

ANALYSIS
mp 230-231 °C (Kofler block)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 85/15/3, v/v/v), Rf 0.65. Purity 98+% at 25 µg and 50 µg loading. No contaminants detected at either load including 2,6-dichloropurine (Rf 0.50).

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 290.7 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 = 22.60 min. Purity > 98+%.

STORAGE & STABILITY
Store over silica gel in tightly sealed container at room temperature in darkness. 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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