CERTIFICATE OF ANALYSIS

meta-FLUOROBENZYLADENINE (mFBA)
$C_{12}H_{10}FN_5$, FW = 243.25

OLCHEMIM CODE: 001 580n
OLCHEMIM BATCH: FBA-C
MANUFACTURING DATE: March 2023
EXPIRATION DATE: March 2033
CAS: 525608-36-0
BATCH SIZE: 1.5 g

SYNTHESIS

Condensation of 6-chloropurine and 3-fluorobenzylamine in n-BuOH containing triethylamine. Re-crystallised from MeOH. White crystals, free of foreign matter soluble in DMFA, DMSO.

ANALYSIS
mp 247.0-248.0 °C (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuum.

H_2O /pH 2.0	Amax 273.5 nm
H_2O /pH 7.0	Amax 269 nm
H_2O /pH 11.0	Amax 269.4 nm

TLC (silica-chloroform/MeOH/conc. NH_4OH, 85/15/3, v/v/v), Rf 0.6. Purity 99+% at 25 µg and 50 µg loading. No contaminants detected at either load including 6-chloropurine (Rf 0.40).
MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 244 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 (mFT) = 37,1 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

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