CERTIFICATE OF ANALYSIS

meta-FLUOROBENZYLADENOSINE (mFBAR)
$C_{12}H_{10}FN_5$, FW = 375.36

OLCHEMIM CODE: 001 581n
OLCHEMIM BATCH: FBAR-C
MANUFACTURING DATE: October 2028
EXPIRATION DATE: October 2034
CAS: 29204-64-6
BATCH SIZE: 15 g

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

ANALYSIS
mp 153.0-154.0 °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 0.65. Purity 99+% at 25 µg and 50 µg loading. No contaminants detected at either load including 6-chloropurine riboside (Rf 0.35).
MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 376 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 (mFTR) = 39,2 min. Purity > 98,5+%..

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

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