CERTIFICATE OF ANALYSIS

N^6-BENZYLADENOSINE (6-BENZYLAMINOPURINE RIBOSIDE, BAR)
$C_{17}H_{19}N_5O_4$, MW = 357. 37

OLCHEMIM CODE: 001 055n
OLCHEMIM BATCH: BAR-C
MANUFACTURING DATE: December 2024
EXPIRATION DATE: December 2033
CAS: 4294-16-0
BATCH SIZE: 103 g

SYNTHESIS
Prepared by condensation of 6-chloropurine riboside and benzylamine. Chromatographically purified over silica gel and re-crystallised from water and propanol. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT Very sharp melt 170-171°C (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuum.

H_2O	λ_{max} 268.5 nm
EtOH	λ_{max} 270.0 nm (16,800)
pH 7 (H_2O)	λ_{max} 269.8 nm
pH 2 (≅0.1 M HCl)	λ_{max} 267.1 nm
pH 11 (≅0.1 M NaOH)	λ_{max} 269.8 nm

TLC (silica-chloroform/MeOH/40/5); Rf 0.33. Purity 98+% at 25 µg loading. No contaminants detected, including 6-chloropurine riboside (Rf 0.64) or 6-benzyladenine detected.
MASS SPECTROMETRY: Matches the reference spectrum $[M]^+$= 358.16 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 (BAR) = 23.2 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

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