CERTIFICATE OF ANALYSIS

(RS)-DIHYDROZEATIN-7-β-D-GLUCOSIDE

(DZ7G), $C_{16}H_{25}N_5O_6$, FW = 383.41

OLCHEMIM CODE 001 062n
MANUFACTURING DATE: May 2025
CAS: 91599-03-0

OLCHEMIM BATCH: DZ7G-C
EXPIRATION DATE: May 2034
BATCH SIZE: 200 mg

SYNTHESIS
Prepared by the condensation of 6-chloropurine-7-B-D-glucopyranosyl peracetate and (±)-4-amino-2-methylbutan-1-ol in methanol containing triethylamine. Purified by reverse-phase chromatography and re-crystallized from methanol. A colourless, amorphous solid, soluble in aqueous alcohol.

ANALYSIS
MELTING POINT: 242 – 245°C (decomposition).

UV: Determined after drying to constant weight over phosphorus pentoxide in vacuo.

(EtOH)	λ_{max} 278 nm (11,660)
(50% EtOH/1 M HCl)	λ_{max} 284 nm (16,800)
(50% EtOH/2M ammonia)	λ_{max} 278 nm (12,000)

TLC (silica-nBuOH/AcOH/water, 12/3/5, v/v). Rf 0.47. Purity 95+%.
HPLC (25 cm ODS-2, 60% isocratic MeOH/0.2 M AcOH, 1 ml/min, 280 nm), Rt 6.5 min. No DHZ9G or DHZ detectable (<1%). Purity 95+%.
HPLC (25 cm ODS-2, 0 to 80% MeOH/0.2 M AcOH, 1 ml/min, 280 nm), Rt 22.4 min. Some separation of diastereoisomers may occur on some columns. Purity 95+%.

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –18°C.

NOTE: For quantitative work, therefore, calculate concentration from UV absorption i.e. 1 OD at 278 nm in ethanol = 32.8 µg/ml

FOR LABORATORY USE BY EXPERIENCED PERSONNEL ONLY; NOT FOR DRUG, HOUSEHOLD OR OTHER USES

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