CERTIFICATE OF ANALYSIS

R-(-)-DIHYDROZEATIN RIBOSIDE (-DZR), $C_{15}H_{23}N_5O_5$, FW = 353.38

OLCHEMIM CODE: 028 061n
OLCHEMIM BATCH: 061R-A
MANUFACTURING DATE: August 2025
EXPIRATION DATE: August 2034
CAS: 64070-21-9
BATCH SIZE: 2 g

SYNTHESIS
Condensation of 6-chloropurine riboside and (+)-4-amino-2-methylbutan-1-ol in n-BuOH containing triethylamine. Re-crystallised twice from water and dried to constant weight over phosphorus pentoxide. Colourless needles very sparingly soluble in EtOH.

ANALYSIS
Softens at 221ºC, melts sharply at mp 223 – 224ºC (lit. 224 – 225ºC)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo
EtOH Amax 269 nm (17,100)

TLC (silica-chloroform/MeOH. 90/10, v/v), Rf 0.15. Purity 98+% at 25 µg and 50 µg loading. No contaminants detected at either load including 6-chloropurine riboside.
HPLC (150 x 4.5 mm ODS, 0 to 30% acetonitrile over 30 min, 2 ml/min), tR 16.2 min. Purity 98+%.
SPECIFIC ROTATION: $[A]_D^{24}$ = -48.6º (MeOH; c = 0.210)

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –20ºC. No detectable decomposition after 6 months storage under these conditions.
NOTE: This vial contains approx. 10% more than the stated quantity. This is to ensure that you can dispense the required amount. However the product is unlikely to be anhydrous when it reaches you.

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

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