CERTIFICATE OF ANALYSIS

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

OLCHEMIM CODE: 028 061n
OLCHEMIM BATCH: 061S-A
MANUFACTURING DATE: August 2025
EXPIRATION DATE: August 2034
CAS: 64070-22-0
BATCH SIZE: 4 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 soluble in EtOH.

ANALYSIS
mp 197 – 198°C (lit. 199 – 200°C)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo
EtOH Amax 267 nm (17,300)

TLC (silica-chloroform/MeOH. 90/10, v/v), Rf 0.15. Purity 97+% 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: $[\alpha]_D^{25}$ = -62.2° (MeOH; c = 0.527)

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –20°C. 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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