CERTIFICATE OF ANALYSIS

cis-ZEATIN RIBOSIDE (ZR)

6-((Z)-4-hydroxy-3-methylbut-2-enylamino)-9-β-D-ribofuranosylpurine

$C_{15}H_{21}N_5O_5$, MW = 351.37

OLCHEMIM CODE: 001 033n
OLCHEMIM BATCH (Z)-ZeaR-C
MANUFACTURING DATE: November 2025
EXPIRATION DATE: November 2034
CAS: 15896-46-5
BATCH SIZE: 500 mg

SYNTHESIS

Prepared by condensation of 6-chloropurine riboside and (Z)-4-hydroxy-3-methylbut-2-enylamine oxalate in the presence of triethylamine as a base in methanol. Purified over silica gel and re-crystallized from methanol. White, microcrystalline solid, soluble in methanol and aqueous ethanol.

ANALYSIS

MELTING POINT: 212-214 °C

TLC: (silica gel, Aldrich) chloroform-MeOH-conc. NH_4OH (70 : 30 : 3); Rf 0.40.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 352.4, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC: (Waters C_{18} 5µm; 2.1x150mm; pH = 4.0 (15mM (ammonium formate); 2 to 90 % methanol; initial: 2 % methanol, 10 minute isocratically; flow rate: 0.3ml/min), R_t = 7.00, purity 99.0+%.

STORAGE & STABILITY

Store in tightly sealed container at below 0°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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