CERTIFICATE OF ANALYSIS

cis-ZEATIN-9-GLUCOSIDE (cZ9G)

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

$C_{16}H_{23}N_5O_6$, MW = 381.39

OLCHEMIM CODE: 001 289n
OLCHEMIM BATCH : cZ9G-C
MANUFACTURING DATE: December 2025
EXPIRATION DATE: December 2034
CAS: 169565-72-4
BATCH SIZE: 310 mg

SYNTHESIS

Prepared by the condensation of 6-chloropurine-9-β-D-glucoside and *cis*-4-amino-2-methylbut-2-enol hydrochloride in methanol containing triethylamine. Purified by reverse-phase chromatography and re-crystallised from methanol. A colourless, amorphous solid, soluble in water or methanol. Best solvent dimethyl sulfoxide (10 mg/ml).

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

EtOH	λ_{max} 268 nm (18,300)
0.1 M aq. AcOH	λ_{max} 267 nm (18,650)
EtOH/0.2 M ammonia	λ_{max} 268 nm (18,500)

MASS SPETROMETRY: MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$ = 382.10 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC: HPLC: RP 18, 4.0 x 250 mm, 5 µm, (Purospher, Merck); 50% MeOH - 50% AcOH/NH_4OH buffer, pH 3.4, linear gradient to 65% MeOH (20 min), 0.4 mL/min. RT: 9.8 min. Purity 98 +%.

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

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

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