CERTIFICATE OF ANALYSIS

2-METHYLTHIO-*cis*-ZEATIN RIBOSIDE (2MeScZR)
$C_{16}H_{23}N_5O_5S$, MW = 397.46

OLCHEMIM CODE: 001 056n
OLCHEMIM BATCH: MeScZR-C
MANUFACTURING DATE: February 2024
EXPIRATION DATE: February 2033
CAS: 52049-48-6
BATCH SIZE: 50 mg

SYNTHESIS
Prepared by condensation of 6-chloro-2-methylthiopurine riboside and (Z)-4-hydroxy-3-methylbut-2-enylamine oxalate. Purified over silica gel and re-crystallized from water. Yellowish, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS

MELTING POINT: 170-173 °C

TLC: (silica gel, Aldrich) chloroform-MeOH (8 : 2); Rf 0.50.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 398.3, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC: RP 18, 4.0 x 250 mm, 5 µm, (Purospher, Merck); 50% MeOH - 50% AcOH/NH_4OH buffer, pH 3.4, 0.4 mL/min); purity 98 +%.

STORAGE & STABILITY
Store in tightly sealed container at -18°C. No detectable decomposition after 12 months storage under these conditions. Store under N_2 or Ar if possible. CH_3S- group is sensitive to oxidation.

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

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