CERTIFICATE OF ANALYSIS

2-METHYLTHIO-*cis*-ZEATIN (2MeScZ)
$C_{11}H_{15}N_5OS$, MW = 265.34

OLCHEMIM CODE: 001 054n
OLCHEMIM BATCH: 2MeScZ-C
MANUFACTURING DATE: November 2024
EXPIRATION DATE: November 2033
CAS: 52020-11-8
BATCH SIZE: 1.85 g

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

ANALYSIS

MELTING POINT: 241-244 ºC

TLC: (silica gel, Aldrich) chloroform-MeOH (8 : 2); Rf 0.75.

MASS SPECTROMETRY: Matches the reference spectrum $[M+H]^+$= 266.2, 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, linear gradient to 65% MeOH (20 min), 0.4 mL/min. RT: 17.5 min. Purity 98+ %.

STORAGE & STABILITY
Store in tightly sealed container at -18ºC. 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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