CERTIFICATE OF ANALYSIS

2-THIO-N^6-ISOPENTENYLADENINE (2BS-IP)
$C_{10}H_{13}N_5S$, MW = 235.31

OLCHEMIM CODE: 001 508n
OLCHEMIM BATCH: 508-A
MANUFACTURING DATE: June 2025
EXPIRATION DATE: June 2035
CAS: 52172-12-0
BATCH SIZE: 1.7 g

SYNTHESIS
Reduction of 2-benzylthio-N^6-(2'-isopentenyl)adenine in liquid ammonia by the method of Dammann et al, Phytochemistry, 13, 329-336, (1974). Exists as a mixture of tautomers, mainly ketonic. A colourless, amorphous solid. Practically insoluble in water, soluble in dilute aqueous alkali. CAUTION, oxidation (to disulphide) occurs readily in alkaline solution. Sparingly soluble in MeOH (1 mg/ml). Soluble in DMSO at 10 mg/ml to give a clear, very pale yellow solution.

ANALYSIS
MELTING POINT 255-257°C (Kofler block).

TLC (SILICA - CHLOROFORM/MeOH, 95/5). Shows 2 spots (Rf 0.04 & 0.15) corresponding to tautomeric forms. No contaminants detected at 20 µg load. Purity 95+%.

TLC (n-BUOH/H_2O/ACA, 12/5/3). Shows 2 spots (Rf 0.55 & 0.77) corresponding to tautomeric forms. No contaminants detected at 20 µg load. Purity 95+%.

STORAGE & STABILITY
Store over silica gel under nitrogen in tightly-sealed container in the freezer at -18 °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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