CERTIFICATE OF ANALYSIS

2-BENZYLTHIO-N^6-ISOPENTENYLADENINE (2BS-IP)
MW = 325.44

OLCHEMIM CODE: 001 524n
MANUFACTURING DATE: June 2034
CAS: 52172-11-9

OLCHEMIM BATCH: 524-A
EXPIRATION DATE: June 2034
BATCH SIZE: 3.4 g

SYNTHESIS
By condensation of 2-benzylthio-6-chloropurine and 2-isopentenylamine hydrochloride in n-BuOH containing triethylamine. Chromatographically purified over silica and re-crystallised 3 times from ethanol. A pale pink amorphous solid, soluble in ethanol.

ANALYSIS
MELTING POINT: 260-261.5°C (Kofler block)

TLC (silica-chloroform/MeOH, 95/5).

Major spot (Rf 0.38) with single, very faint faster-running contaminant at 60 μg loading.

Estimated purity 95+%.

MASS SPETROMETRY: Matches the reference spectrum $[M]^+$= 326.1 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

STORAGE & STABILITY
Store over silica gel 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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