CERTIFICATE OF ANALYSIS

DIHYDROZEATIN-O-ACETYL (AcDZ), FW = 263.30

OLCHEMIM CODE: 001 502n
MANUFACTURING DATE: June 2025
CAS: 126221-88-3

OLCHEMIM BATCH: 502-A
EXPIRATION DATE: June 2034
BATCH SIZE: 100 mg

SYNTHESIS

By direct acetylation of (R,S)-dihydrozeatin in acetic anhydride/pyridine. Re-crystallised twice from methanol. A colourless, amorphous solid, dried to constant weight over calcium chloride and phosphorus pentoxide. Dissolves readily in MeOH at 5.5 mg/ml to give a clear, colourless solution.

ANALYSIS
Softens at 152 °C, mp 154 – 156°C
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuo

EtOH	λ_{max} 268 nm
50% EtOH/ lM HCl	λ_{max} 271 nm
50% EtOH/1 M ammonium hydroxide	λ_{max} 272 nm

TLC (silica-chloroform/MeOH. 9/1, v/v), Rf 0.74. Purity 98+% at 25 µg and 50 µg loading. One faint contaminant at Rf 0.81. No detectable dihydrozeatin (Rf 0.46).

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –18°C. No detectable decomposition after 6 months storage under these conditions.

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

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