CERTIFICATE OF ANALYSIS

ZEATIN-O-ACETYL (AcZ), FW = 261,29

OLCHEMIM CODE: 001 515n
MANUFACTURING DATE: May 2025
CAS: 6025-82-7

OLCHEMIM BATCH: 515-A
EXPIRATION DATE: May 2035
BATCH SIZE: 1 g

SYNTHESIS

By direct acetylation of *trans*-zeatin in acetic anhydride/pyridine. Re-crystallised twice from water. A colourless, amorphous solid, dried to constant weight over calcium chloride and phosphorus pentoxide. Dissolves readily in MeOH at 4.4 mg/ml to give a clear, colourless solution.

ANALYSIS

Softens at 174 °C , mp 175 – 176°C

UV

Determined after drying to constant weight over phosphorus pentoxide in vacuo

EtOH	λ_{max} 270 nm
50% EtOH/ lM HCl	λ_{max} 275 nm
50% EtOH/1 M ammonium hydroxide	λ_{max} 276 nm

TLC (silica-chloroform/MeOH. 9/1, v/v), Rf 0.74. Purity 98+% at 25 µg and 50 µg loading. No detectable zeatin (Rf 0.46) or any other impurities.

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!

Store over silica gel in tightly sealed container at below 0°C. No detectable decomposition after 6 months storage under these conditions.

NOTE: This vial contains approx. 10% more than the stated quantity. This is to ensure that you can dispense the required amount. However the product is unlikely to be anhydrous when it reaches you.

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

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