CERTIFICATE OF ANALYSIS

(RS)-DIHYDROZEATIN HYDROCHLORIDE (DHZ.HCl), $C_{10}H_{15}N_5O.HCl$, FW = 257.72

OLCHEMIM CODE: 001 025n
OLCHEMIM BATCH: DHZ.H-C
MANUFACTURING DATE: March 2024
EXPIRATION DATE: March 2034
CAS: 1402800-82-1
BATCH SIZE: 1.92 g

ANALYSIS
Colourless, microcrystalline solid. Dissolves readily in methanol at 10 mg/ml to give a clear, colourless solution. Water-soluble form of N^6-(2-isopentenyl)adenine. Minimum water solubility 7.45 mg/ml at 20°C.

UV: Determined after drying to constant weight over phosphorus pentoxide in vacuo.

EtOH	λ_{max} 268 nm (16,800)
50% EtOH/ lM HCl	λ_{max} 270.5 nm (16,300)
50% EtOH/1 M ammonium hydroxide	λ_{max} 272 nm (16,200)

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 222.18 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm × 4.6 mm, 5µm) (Microsorb C18; Varian). The elution was performed with a methanolic gradient. The flow rate was 0.6 ml/min. The UV absorbance was scanned between 240 – 300 nm. Rt (DHZ) = 10.2 min. Purity > 99+%.

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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