CERTIFICATE OF ANALYSIS

N^6-(2-ISOPENTENYL)ADENINE HYDROCHLORIDE (iP.HCl)

6-(γ,γ-dimethylallylamino)purine

$C_{10}H_{13}N_5$.HCl, FW = 239.71

OLCHEMIM CODE: 001 503n
OLCHEMIM BATCH: 503-A
MANUFACTURING DATE: March 2025
EXPIRATION DATE: March 2034
CAS: 177966-67-5
BATCH SIZE: 15 g

ANALYSIS
MELTING POINT: 192.0 – 193.0 °C. 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.

water, pH 1	λ_{max} 273 nm (18,600)
water, pH 7	λ_{max} 269 nm (19,400)
water, pH 13	λ_{max} 275 nm (18,100)

TLC (SILICA-DICHLOROMETHANE/METHANOL, 9/1). N^6-(2-isopentenyl)adenine.HCl gives a single, moderately-sharp spot (Rf 0.66) at 25 & 50 µg loading with no detectable contaminants. Purity 97+%.
MASS SPETROMETRY: Matches the reference spectrum $[M]^+$= 204.10 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

STORAGE & STABILITY
STABLE. Store over silica gel in tightly sealed container in the dark at –20°C.

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

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