CERTIFICATE OF ANALYSIS

FUSATINE

(6-(3-Methylpyrrol-1-yl)-9*H*-purine)

$C_{10}H_9N_5$, FW = 199.22

OLCHEMIM CODE: 001 782n
OLCHEMIM BATCH: B-782
MANUFACTURING DATE: January 2024
EXPIRATION DATE: January 2033
CAS: 33917-73-6
BATCH SIZE:

SYNTHESIS

By catalytic oxidative closure of (E)-zeatin – side chain in water. Re-crystalized from ethanol. Appearance: almost white crystals, free of foreign matter, soluble in methanol, DMF, DMSO, slightly soluble in water.

ANALYSIS

mp 264-266 °C (Kofler block)

TLC (silica-chloroform/MeOH/conc. NH_4OH, 9/1/0.05, v/v/v), Rf 0.62. Purity 97+% at 25 µg and 50 µg loading. No contaminants detected.

^1H, ^{13}C NMR: in accordance with published data

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 200.38 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 = 23.97 min. Purity 97+%.

STORAGE & STABILITY

Store over silica gel in tightly sealed container at room temperature in darkness. 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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