CERTIFICATE OF ANALYSIS

KINETIN RIBOSIDE (6-FURFURYLAMINOPURINE RIBOSIDE, KR)
$C_{15}H_{17}N_5O_5$, MW = 347. 33

OLCHEMIM CODE: 001 035n
OLCHEMIM BATCH: KR-C
MANUFACTURING DATE: April 2024
EXPIRATION DATE: April 2033
CAS: 4338-47-0
BATCH SIZE: 12 g

SYNTHESIS
Prepared by condensation of 6-chloropurine riboside and furfurylylamine. Chromatographically purified over silica gel and re-crystallised from water and propanol. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT 133-135ºC (Kofler block)
UV
Determined after drying to constant weight over phosphorus pentoxide in vacuum.
H_2O λ_{max} 266.5 nm
EtOH λ_{max} 269.0 nm (16,800)

TLC (silica-chloroform/MeOH/40/5, v/v); Rf 0.40. Purity 98+% at 25 µg loading. No contaminants detected, including 6-chloropurine riboside (Rf 0.64) or kinetin detected.
MASS SPETROMETRY: Matches the reference spectrum $[M]^+$= 348.03 amu, ZMD 2000 (Waters) single quadrupole electrospray MS (source temperature 100 ºC, capillary voltage +3.0 kV, cone voltage +20 V, desolvation temperature 250 °C).
HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm □ 2.1 mm, 5µm)(Symmetry C18, Waters). The elution was performed with a methanolic gradient. The flow rate was 250 µl/min. The UV absorbance was scanned between 210 – 300 nm. Rt (KR) = 21.6 min. Purity > 99+%.

STORAGE & STABILITY
Store over silica gel in tightly sealed container at 2-8ºC. No detectable decomposition after 12 months storage under these conditions.

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

OlChemIm s.r.o., Šlechtitelů 27, P.O.Box 22, 770 10 Olomouc, Czech Republic
Tel./Fax: +420 585 427 407
email:info@olchemim.cz, OlChemIm on the Internet: http://www.olchemim.cz