CERTIFICATE OF ANALYSIS

N6-CYCLOPENTYLADENOSINE- 5'-MONOPHOSPHATE, disodium salt 98+%, FW = 415.35 for free acid

OLCHEMIM CODE: 001 626n
OLCHEMIM BATCH: 626-B
MANUFACTURING DATE: March 2023
EXPIRATION DATE: May 2033
CAS: 117778-38-8
BATCH SIZE: 40 mg

SYNTHESIS
By condensation of 6-chloropurine-9-β-riboside-5´-monophosphate disodium salt and cyclopentylamine in n-propanol. Purified by flash chromatography on RP C18 column.
UV: 15 mM ammonium formate buffer, pH = 4.0, A max = 269nm

TLC: (silica - n-propanol/ammonia/water, 55/10/35), 20 µg show single, major, moderately sharp spot; Rf = 0.39.
HPLC: (Waters C_{18} 5µm; 2.1x150mm; pH = 4.0 (15mM (ammonium formate); 2 to 90% methanol; initial: 2% methanol, 10minute isocratically; flow rate: 0.3ml/min).
No 6- chloropurine riboside-5´-monophosphate detectable. Purity 98+%.
^{1}H, ^{31}P – NMR spectra: in accordance

ENZYME TREATMENT: Acid phosphatase hydrolysis (equal volume of 20 units/ml in pH 4.8 acetate/AcA buffer) gives complete removal of 5'-phosphate spot (at 30.5 µg equiv. N6-cyclopentyladenosine-5´-monophosphate loading) with production of a single, UV spot with the same Rf as N6-cyclopentyladenosine (0.65).

STORAGE & STABILITY
VERY HYGROSCOPIC! Store over silica gel in tightly-sealed container in freezer (at –18ºC).

SAFETY
No toxicological data available for this compound. Treat as toxic and potentially mutagenic. This product should be handled by experienced personnel only.

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