CERTIFICATE OF ANALYSIS

N^6-ISOPENTENYLADENINE-3-GLUCURONIDE (iP3GN)
$C_{16}H_{21}N_5O_6$, MW = 379.38

OLCHEMIM CODE: 001 598n
OLCHEMIM BATCH: 598-C
MANUFACTURING DATE: August 2024
EXPIRATION DATE: August 2034
CAS: 147663-48-7
BATCH SIZE: 0.5 g

PROPERTIES
Glucuronic acid dissolves readily at 2 mg/ml in water to give clear solution. A colourless, amorphous solid, sparingly soluble in water or methanol.

ANALYSIS
TLC(silica - nBuOH/AcOH/water. 12/3/5). Glucuronic acid gives single, sharp spot (0.32) at 100 µg loading with no detectable iP (0.66) or amide (0.43) or other contaminants. Purity 97+ %
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; purity 97+%.
MS: Data were collected in ESI (+) mode from 50 - 1000 Da, matches the reference spectrum □M+H] + = 380.3.

GUS hydrolysis: Treated with 250 units GUS in water solution overnight at RT. TLC showed substantial removal of iP3GN spot with the production of a single new spot with same Rf as standard iP run at the same time.

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –18°C.
NOTE: For quantitative work, therefore, calculate concentration from UV absorption.

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

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