CERTIFICATE OF ANALYSIS

N^6-ISOPENTENYLADENINE-3-GLUCURONIDE amide (iP3GNA)
$C_{16}H_{22}N_6O_5$, MW = 378.39

OLCHEMIM CODE: 001 599n
OLCHEMIM BATCH: 599-C
MANUFACTURING DATE: August 2025
EXPIRATION DATE: August 2035
CAS: 1402800-75-2
BATCH SIZE: 0.5 g

PROPERTIES
Crystallised from methanol. Glucuronic acid dissolves readily at 2 mg/ml in water to give clear solution. Amide is less soluble but dissolves on addition of 10% AcOH. 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+ %. Amide gives sharp spot with no trace iP or free acid, but does show a very faint contaminant at 0.52. Purity 99+%.
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] + = 379.4.

GUS hydrolysis: Treated with 250 units GUS in water solution overnight at RT. TLC showed substantial removal of iP3GNA 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

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