CERTIFICATE OF ANALYSIS

N^6-(2-ISOPENTENYL)ADENINE-7-β-D-GLUCOSIDE

FW = 365.39

OLCHEMIM CODE: 001 505n
MANUFACTURING DATE: August 2024
CAS: 59384-58-6

OLCHEMIM BATCH: 505-A
EXPIRATION DATE: August 2034
BATCH SIZE: 500 mg

SYNTHESIS

Isopentenyladenine-7-β-D-glucoside (iP7G) was prepared by the condensation of 6-chloropurine-7-β-D-glucosyl acetate and isopentenylamine.HCl. IP7G was re-crystallized from 20% aqueous methanol. A brilliant white, amorphous solid. Very sparingly soluble in alcohol or water. Dissolves readily in dimethyl sulphoxide (DMSO) at 10 mg/ml to give a clear, colourless solution.

ANALYSIS
MELTING POINT: 292.0-292.5 °C (Kofler block)

TLC (silica-nBuOH/AcOH/water, 12/3/5). iP7G gives a single spot (Rf 0.43) at 20 and 50 µg loading. No detectable impurities, purity 98+%.
TLC (silica-trichloroethylene/MeOH, 85/15). iP7G does not move from the origin in this solvent system. Used to test contamination with N^6-isopentenyladenine (iP) or 6-chloropurine which do not migrate in this system. Load 50 and 100 µg iP7G. No detectable contaminants in iP7G including iP9G, 6-chloropurine-7-β-D-glucosyl peracetate, iP or 6-chloropurine; purity 98+%.

STORAGE. STABILITY & SAFETY
ACID-LABILE ! HYGROSCOPIC ! Store over silica gel in tightly-sealed container in the freezer at -18 °C. No toxicological data available for this compound. Treat as toxic and potentially mutagenic.
NOTE: This vial contains approx. 10% more than the stated quantity. This is to ensure that you can dispense the required amount. However the product is unlikely to be anhydrous when it reaches you.

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

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