

Product Data Sheet

Product Name: Uracil-d4
Cat. No.: GC49800

Chemical Properties

Cas. No. 24897-55-0

SMILES O=C1N([2H])C(N([2H])C([2H])=C1[2H])=O

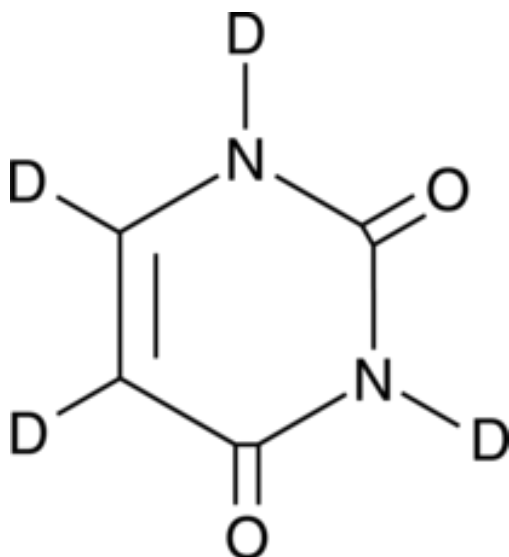
Formula C4D4N2O2 M.Wt 116.1

Solubility DMF: Slightly soluble, DMSO: 1 mg/mL, Ethanol: Slightly soluble, PBS (pH 7.2): 0.25 mg/mL
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Uracil-d₄ is intended for use as an internal standard for the quantification of uracil . Uracil is a pyrimidine base and a fundamental component of RNA where it binds to adenine *via* hydrogen bonds.¹ It is converted into the nucleoside uridine through the addition of a ribose moiety, then to the nucleotide uridine monophosphate by the addition of a phosphate group.

1.Voet, D., and Voet, J.G.Biochemistry1591(2004)

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