

Product Data Sheet

Product Name: Uracil-¹³C,¹⁵N₂

Cat. No.: GC49132

Chemical Properties

Cas. No. 181517-11-3

SMILES O=[13C]([15NH]1)[15NH]C=CC1=O

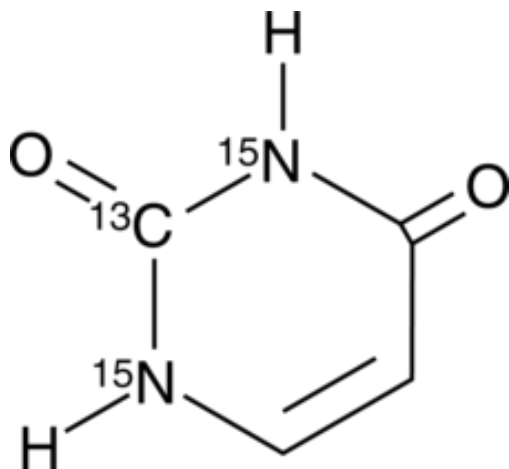
Formula C3[13C]H4[15N]2O22 M.Wt 115.1

Solubility DMSO: soluble, Methanol:Water (1:1): soluble 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

Uracil-¹³C,¹⁵N₂ 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.

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

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1. Voet, D., and Voet, J.G. Biochemistry 1591 (2004)

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