

Product Data Sheet

Product Name: Cytosine-d2

Cat. No.: GC49464

Chemical Properties

Cas. No. 106391-24-6

SMILES NC(N1)=C([2H])C([2H])=NC1=O

Formula C4H3D2N3O

M.Wt 113.1

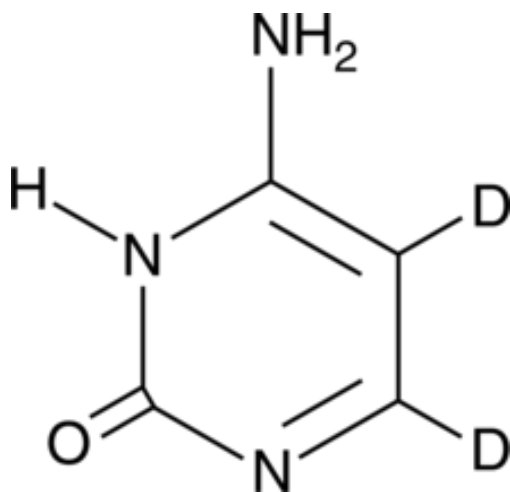
Solubility 0.5M HCl: 50 mg/ml

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

Cytosine-d₂ is intended for use as an internal standard for the quantification of cytosine by GC- or LC-MS. Cytosine is a pyrimidine base.¹ It forms complementary base pairs with the purine guanine in

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

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DNA and RNA and is a precursor of uracil . Methylation of cytosine is a key epigenetic mark that plays a role in gene regulation.²

1.Berg, J.M., Tymoczko, J.L., and Stryer, L.Nucleotide biosynthesisBiochemistry(2002) 2.Breiling, A., and Lyko, F.Epigenetic regulatory functions of DNA modifications: 5-methylcytosine and beyondEpigenetics Chromatin824(2015)

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