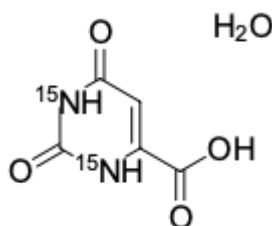


## Orotic acid (1,3-<sup>15</sup>N<sub>2</sub>) monohydrate

<http://cn.lumiprobe.com/p/orotic-acid-15n2>

Orotic acid-1,3-<sup>15</sup>N<sub>2</sub> (monohydrate) is the orotic acid labeled with a stable isotope of nitrogen and is intended for use as an internal standard for the quantification of orotic acid by GC- or LC-MS.

Orotic acid (6-Carboxyuracil) is an intermediate compound in the biosynthetic pathway of pyrimidines (orotic acid is converted to UMP by UMP synthase), primarily sourced in the body through a series of enzymatic reactions involving carbamoyl phosphate synthase II. Its production is influenced by various factors such as positive feedback from 5-phosphoribosyl-1-pyrophosphate and negative feedback from uridine triphosphate. The measurement of urinary orotic acid is useful in confirming the diagnosis of hereditary metabolic diseases. Orotic acid is a marker for measurement in routine newborn screening for urea cycle disorders.



外观:

分子量: 176.10

量:

CAS 编号: 147687-63-6

编号:

分子式: C<sub>5</sub>H<sub>4</sub>(<sup>15</sup>N)<sub>2</sub>O<sub>4</sub>•H<sub>2</sub>O

式:

IUPAC 名称: 1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic Acid-15N<sub>2</sub> Monohydrate

名称:

溶解

度:

质量控制: NMR <sup>1</sup>H和HPLC-MS (95+&nbsp;%, N: 98+&nbsp;%)

控制:

储存

条件:

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