

## Uridine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Uridine

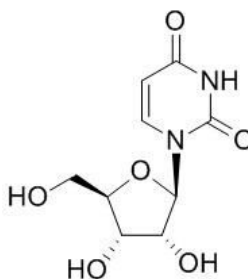
**Catalog No.:** CFN97000

**Cas No.:** 58-96-8

**Purity:** > 95%

**M.F:** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub>

**M.W:** 244.2



**Physical Description:** Powder

**Synonyms:** Uridinato; 1-Beta-L-xylofuranosylpyrimidine-2,4(1H,3H)-dione.

### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

### [ Source ]

The herbs of *Heracleum stenopterum*.

### [ Biological Activity or Inhibitors ]

Uridine is a nucleotide ,the uridine insertion/deletion RNA editing in trypanosome mitochondria is a unique posttranscriptional RNA maturation process that involves the addition or removal of uridine residues at precise sites usually within the coding regions of mitochondrial transcripts.<sup>[1]</sup>

Dietary supplementation with uridine or a uridine source have an increase in brain compounds .<sup>[2]</sup>

Uridine has inhibition of p53-dependent intestinal apoptosis initiated by 5-fluorouracil. <sup>[3]</sup>

Uridine and omega-3 fatty acids have antidepressant-like effects , which are potentiated by combined treatment in rats.<sup>[4]</sup>

Uridine and glycine can prevent D-galactosamine hepatotoxicity in the rat: role of Kupffer cells.<sup>[5]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[6]</sup>**

Mobile phase: 0.05 M Phosphate buffer (Potassium dihydrogen phosphate, adjusted pH to 3.5 by phosphate) – Methanol =98:2 ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 260 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Estévez A M, Simpson L. *Gene*, 1999, 240(2):247-60.

[2] Wurtman R. *WO, US8551452[P]*. 2013.

[3] D. Mark Pritchard, Alastair J. M. Watson, Christopher S. Potten, *et al. P. Natl. Acad. Sci. U.S.A.*, 1997, 94(5):1795-9.

[4] Carlezon W A, Mague S D, Parow A M, *et al. Biol. Psychiat.*, 2005, 57(4):343-50.

[5] Stachlewitz R F, Seabra V, Bradford B, *et al. Hepatology*, 1999, 29(3):737-45.

[6] Chen K, Liu X, Wei C, *et al. Journal of Bioequivalence & Bioavailability*, 2011, 3(4):72-6.

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