[ Product Information ]

Name: Allantoin

Catalog No.: CFN97557

Cas No.: 97-59-6

Purity: >=99%

M.F: C₄H₆N₄O₃

M.W: 158.11

Physical Description: Powder

Synonyms: Alantan; 5-Ureidohydantoin; (2,5-dioxo-4-imidazolidinyl)-urea; (2,5-Dioxo-4-Imidazo-Lidinyl)Urea; 1-(2,5-dioxoimidazolidin-4-yl)urea; 1-[(4R)-2,5-dioxoimidazolidin-4-yl]urea; Allegron; Alphosyl; Alyonyldiurened; Cordianine; Egopsoryl; Sebical; Allantoinum.

[ Intended Use ]

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

[ Source ]

The roots of Phytolacca acinosa.
[ Biological Activity or Inhibitors]
Uric acid acts as an antioxidant and is capable to react with biologically relevant oxidants to form allantoin, allantoin is a possible indicator of free radical damage in vivo. [1]

[ Solvent ]
Pyridine, Methanol, Ethanol, etc.

[ HPLC Method ][2]
Mobile phase: Methanol- H2O with 5 mM sodium laurylsulfate added at pH 2.5, adjusted with 85% orthophosphoric acid, pH of water phase was finally adjusted at 6.0 by addition of triethylamine=20:80;
Flow rate: 1.0 ml/min;
Column temperature: 40 ℃;
The wave length of determination: 235 nm.

[ Storage ]
2-8℃, Protected from air and light, refrigerate or freeze.

[ References ]

[ Contact ]
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