

Hydrocortisone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Hydrocortisone

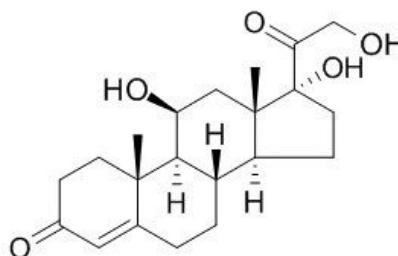
Catalog No.: CFN90033

Cas No.: 50-23-7

Purity: >=98%

M.F: C₂₁H₃₀O₅

M.W: 362.46



Physical Description: Powder

Synonyms: 11 β ,17 α ,21-Trihydroxypregn-4-ene-3,20-dione.

[Intended Use]

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

[Source]

From a simple carbon source by recombinant *Saccharomyces cerevisiae* strains.

[Biological Activity or Inhibitors]

Hydrocortisone does reverse shock faster but there may be an associated increase in

secondary infections. [1]

Hydrocortisone therapy restores hemodynamic stability and differentially modulates the immunologic response to stress in a way of antiinflammation rather than immunosuppression.[2]

Hydrocortisone may reduce the extracellular spread of inflammation through the inhibition of matrix metalloproteinases. [3]

Chronic administration of hydrocortisone leads to deficits in certain tests of cognitive function sensitive to frontal lobe dysfunction and may contribute to the cognitive impairment reported in certain neuropsychiatric disorders.[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O(pH adjusted to 2.5 with 85% orthophosphoric acid)=65:35 ;

Flow rate: 1.0 ml/min;

Column temperature: 20 °C;

The wave length of determination: 250 nm.

[Storage]

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

[References]

[1] Sim K, Cairns C. *J. Intensive Care Soc.*, 2008, 9(1):68-9.

[2] Keh D, Boehnke T, Webercartens S, *et al. Infect. Dis. Clin. Pract.*, 2003, 11(8):512-20.

[3] Aljada A, Ghanim H, Mohanty P, *et al. J. Clin. Endocrinol. Metab.*, 2001, 86(12):5988-91.

[4] Young A H, Sahakian B J, Robbins T W, *et al. Psychopharmacology*, 1999, 145(3):

260-6.

[5]Jancic-Stojanović B, Malenović A, Marković S, *et al. J. AOAC Int.*, 2010, 93(1):102-7.

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