

Tryptophol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tryptophol

Catalog No.: CFN98866

Cas No.: 526-55-6

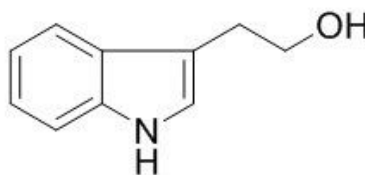
Purity: > 98%

M.F: C₁₀H₁₁NO

M.W: 161.20

Physical Description: Powder

Synonyms: 2-(1H-indol-3-yl)ethanol; Indole-3-ethanol.



[Intended Use]

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

[Source]

From *Zygosaccharomyces priorianus*.

[Biological Activity or Inhibitors]

Tryptophol can inhibit the proliferation of U937 cells by inducing apoptosis via a pathway

involving caspase-8 followed by caspase-3, without affecting normal lymphocytes.^[1]

Tryptophol can induce sleep in micem, tryptophols or the corresponding aldehydes may play a role in physiological sleep mechanisms.^[2]

Daily administration of tryptophol to laboratory rodents results in significantly depressed antibody production of heterologous red blood cell challenge, does not alter cellular-mediated responses to oxazalone, suggests that trypanosome-produced tryptophol may account for the immunodepression observed during trypanosomiasis.^[3]

Tryptophol has genotoxicity in a battery of short-term assays on human white blood cells in vitro.^[4]

Tryptophol induces apoptosis through Death Receptor (DR) 5 and that the resistance of peripheral blood lymphocytes (PBL) to tryptophol-induced apoptosis might be due to competition from decoy receptor (DcR).^[5]

[Solvent]

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

[HPLC Method]^[1]

Mobilephase:(Methanol/H₂O/5NHCl=10/89.1/0.1)-(Acetonitrile/H₂O/5NHCl =50/49.9/0.1),
gradient elution ;

Flow rate: 10.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Inagaki S, Morimura S, Gondo K, *et al. Agr. Biol. Chem.*, 2007, 71(2):371-9.

- [2] Feldstein A, Chang F H, Kucharski J M. *Life Sci.*, 1970, 9(6):323-9.
- [3] Ackerman S B, Seed J R. *Cell. Mol. Life Sci. Cmls*, 1976, 32(5):645-7.
- [4] Kosalec I, Safranić A, Pepeljnjak S, *et al. Basic Clin. Pharmacol.* , 2008, 102(5):443-52.
- [5] Inagaki S, Morimura S, Tang Y, *et al. Agr. Biol. Chem.*, 2007, 71(8):2065-8.

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