

Strychnine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Strychnine

Catalog No.: CFN98130

Cas No.: 57-24-9

Purity: >=98%

M.F: C₂₁H₂₂N₂O₂

M.W: 334.41



Physical Description: Powder

Synonyms: Strychnidin-10-one; Vauquiline; L-Strychnine; 2,4a,5,5a,7,8,15,15a,15b,15c-decahydro-4,6-methano-6h,14h-indolo[3,2,1-ij]oxep; 4,6-Methano-6H,14H-indolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinoline, strychnidin-10-one deriv.

[Intended Use]

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

[Source]

The seeds of *Strychnos nux-vomica* L.

[Biological Activity or Inhibitors]

Strychnine and bicuculline have inhibitory effects on GABA- and glycine-induced responses.^[1]

Strychnine can block binaural inhibition in lateral superior olivary neurons.^[2]

Strychnine facilitates learning by affecting posttrial neurobiological processes underlying memory storage. ^[3]

Strychnine-insensitive glycine site NMDA antagonist (R)-HA-966 have neuroprotective effects in an experimental model of Parkinson's disease.^[4]

Strychnine insensitive glycine receptor has anticonvulsant properties.^[5]

Strychnine decreases the voltage-dependent Ca^{2+} current of both Aplysia and frog ganglion neurons.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: Acetonitrile- Phosphate buffer (pH 7.4), gradient elution ;

Flow rate: 1.0 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] Shirasaki T, Klee M R, Nakaye T, *et al. Brain Res.*, 1991, 561(1):77-83.

[2] Moore M J, Caspary D M. *Journal of Neuroscience the Official Journal of the Society for Neuroscience*, 1983, 3(1):237-42.

- [3] Mcgaugh J L, Krivanek J A. *Physiol. Behav.*, 1970, 5(12):1437-42.
- [4] Kanthasamy A G, Kanthasamy A, Matsumoto R R, *et al.* .*Brain Res.*, 1997, 759(1):1-8.
- [5] Sheardown M J, Drejer J, Jensen L H, *et al.* *Eur.J.Pharmacol.*, 1990, 174(2-3):
197-204.
- [6] Oyama Y, Akaike N, Carpenter D O. *Cell. Mol.Neurobiol.*, 1988, 8(3):307-14.
- [7] Jablonski J E, Schlessner J E, Mariappagoudar P. *J. Agr. Food Chem.*, 2006, 54(20):
7460-5.

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