

Coixol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Coixol

Catalog No.: CFN98889

Cas No.: 532-91-2

Purity: > 95%

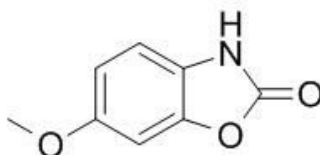
M.F: C₈H₇NO₃

M.W: 165.15

Physical Description: Powder

Synonyms: 6-Methoxy-2-Benzoazolinone; 3,5-Dinitro-4-chlorotrifluorotoluene;

6-Methoxy-1,3-benzoxazol-2(3H)-one.



[Intended Use]

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

[Source]

The seed of *Coix lacryma-jobi* L. var. *meyuan* (Romen.) Stapf.

[Biological Activity or Inhibitors]

Coixol, the characteristic component among the examined five natural products derived from *C. Lachryma* - *Jobi* var. *ma* - *yuen* , can regulate gene expression, production and secretion of mucin, by directly acting on airway epithelial cells. ^[1]

Coixol exerts an exclusive glucose-dependent insulinotropic effect in β TC-6 cells.^[2]

Coixol has pharmacological properties qualitatively similar to chlorzoxazone and acts as a central muscle relaxant with an anti-convulsant effect.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-1%Phosphoric acid H₂O=25:75;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 232 nm.

[Storage]

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

[References]

[1] Lee H J, Ryu J, Park S H, *et al. Arch.Pharm. Res.*, 2014, 38(5):1-8.

[2] Khaga Raj Sharma,Sayed Ali Raza, Abdul Hameed,*et al.J.Cytol.Histol.*2015,5.19.

[3] Gomita Y, Ichimaru Y, Moriyama M, *et al. Folia Pharmacologica Japonica*, 1981, 77(3):245-59.

[4] Zhang M C, Xiu-Ping M A, Wen-Fen X U, *et al. Medicinal Plant*, 2010(8):95-7.

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