

## Brucine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Brucine

**Catalog No.:** CFN90244

**Cas No.:** 357-57-3

**Purity:** >=98%

**M.F:** C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>

**M.W:** 394.46

**Physical Description:** Powder

**Synonyms:** 10,11-Dimethystrychnine; 2,3-Dimethoxystrychnidine-10-one; 2,3-Dimethoxystrychnine; Brucin; Brucina.



### [ 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 ]

Brucine and brucine N-oxide have analgesic and anti-inflammatory activities, central and peripheral mechanism are involved in the effects.<sup>[1]</sup>

Brucine possesses cytotoxic and antiproliferative activities, it also possesses antitumor and anti-angiogenic activities in vitro and in vivo, suggests that it can be used as a potential anticancer agent as an antimetastatic and anti-angiogenic agent.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: n-Hexane-Dichloromethane-Methanol-Ammonia=47.5:47.5:5:0.35 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wu Y, Wang T S, Yin F Z, *et al. J. Ethnopharmacol.*, 2003, 88(2–3):205-14.

[2] Agrawal S S, Saraswati S, Mathur R, *et al. Life Sci.*, 2011, 89(5–6):147-58.

[3] Jiang Y H, Yang W L, Gong Q F. *China Journal of Chinese Materia Medica*, 2003, 27(12):899-901.

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