

## Isomahanine Datasheet

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

### [ Product Information ]

**Name:** Isomahanine

**Catalog No.:** CFN92200

**Cas No.:** 144606-95-1

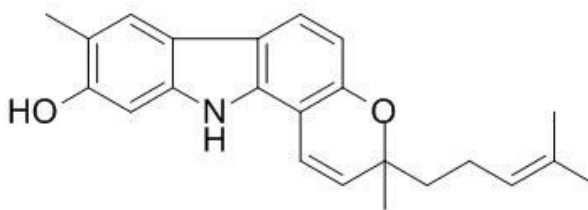
**Purity:** > 98%

**M.F:** C<sub>23</sub>H<sub>25</sub>NO<sub>2</sub>

**M.W:** 347.5

**Physical Description:** Cryst.

**Synonyms:**Pyrano[3,2-a]carbazol-9-ol,3,11-dihydro-3,8-dimethyl-3-(4-methyl-3-pentenyl)  
- (9Cl).



### [ Intended Use ]

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

### [ Source ]

The leaves of *Murraya koenigii*.

## **[ Biological Activity or Inhibitors ]**

Isomahanine and mahanine , isolated from the ethyl acetate extract of *Murraya koenigii* (Rutaceae) leaves, show antibacterial activity towards *Flavobacterium columnare* and *Streptococcus iniae* which caused columnaris disease and streptococcosis respectively; isomahanine has the strongest activity against *F. columnare* (isolate ALM-00-173) and *S. iniae* (isolate LA94-426) based on 24-h 50% inhibition concentration (IC<sub>50</sub>) and minimum inhibition concentration (MIC).<sup>[1]</sup>

Isomahanine is a potent inhibitor of sEH , with IC<sub>50</sub> values of 22.565±651.7.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[1]</sup>**

Mobile phase: Ethyl acetate - Methylene chloride =5:95 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Meepagala K M, Schrader K K, Burandt C L. *J. Agr. Chem. Env.*, 2013, 02(4):90-100.

[2] Kim J H, Morgan A M, Tai B H, *et al. J. Enzym. Inhib. Med. Ch.*, 2015:1-5.

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