

## 4-Hydroxy-3,5-dimethoxybenzaldehyde Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** 4-Hydroxy-3,5-dimethoxybenzaldehyde

**Catalog No.:** CFN99421

**Cas No.:** 134-96-3

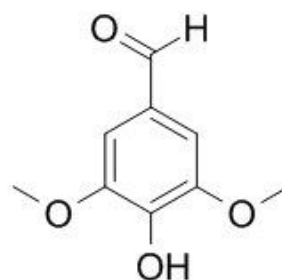
**Purity:** >=98%

**M.F:** C<sub>9</sub>H<sub>10</sub>O<sub>4</sub>

**M.W:** 182.2

**Physical Description:** Powder

**Synonyms:** Syringaldehyde (4-Hydroxy 3,5-dimethoxybenzaldehyde); Syringaldehyde.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

### [ Source ]

The herbs of *Artemisia annua* L.

### [ Biological Activity or Inhibitors ]

4-Hydroxy-3,5-dimethoxybenzaldehyde has radioprotection effect through its capabilities

as a powerful antioxidant, in minimizing DNA damage, and activating survival signal Akt pathway, and it may be of value in the development of radioprotective compounds.<sup>[1]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase:(50mM Phosphate buffer(pH=2)-methanol=85:15)-(50mM Phosphate buffer (pH=2)-methanol-acetonitrile=4:3:3), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Zheng H, Chen Z W, Wang L, *et al. Eur. J. Pharm. Sci.*, 2008, 33(1):52-9.

[2] Ahn Y J, Lee S B, Lee H S, *et al. Limnol. Oceanogr. Meth.*, 2015, 13(1):1-8.

## **[ Contact ]**

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