

## Horminone Datasheet

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

### [ Product Information ]

**Name:** Horminone

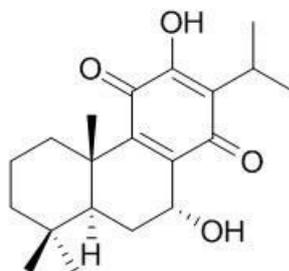
**Catalog No.:** CFN98086

**Cas No.:** 21887-01-4

**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>28</sub>O<sub>4</sub>

**M.W:** 332.4



**Physical Description:** Yellow powder

**Synonyms:** (7 $\alpha$ )-7,12-Dihydroxyabieta-8,12-diene-11,14-dione.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Salvia japonica* Thunb.

### [ Biological Activity or Inhibitors ]

Horminone and tingenone can inhibit the in vitro growth of *Trypanosoma cruzi*, 30 microM

drug concentration producing total inhibition of growth.<sup>[1]</sup>

Horminone has antimicrobial activity, it can inhibit the protein synthesis in several types of bacteria.<sup>[2]</sup>

Horminone can increase serum ALT and AST levels and cyt b5 content and induce the activities of ethylmorphine N-demethylase (EMD); on the other hand, horminone can decrease P450 content and inhibit the activities of 7-ethoxyresorufin O-deethylase (ERD), 7-ethoxycoumarin O-deethylase (ECD), aniline 4-hydroxylase (AH) and NADPH-cytochrome P450 reductase (NR); thus, the possibility of toxic effects occurring after administration of plant extracts containing horminone must be considered.<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: 0.1% Formic acid in water- Acetonitrile, gradient elution;

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] Goijman S G, Turrens J F, Marini-Bettolo G B, *et al. Experientia*, 1985, 41(5):646-8.

[2] Nicolás I, Vilchis M, Aragón N, *et al. Int. J. Quantum Chem.*, 2003, 93(6):411-21.

[3] Ferreira R, Candeias F, Simões F, *et al. J. Ethnopharmacol.*, 1997 Sep; 58(1):21-30.

[4] Lin L, Zhao H, Dong Y, *et al. Food Chem.*, 2012, 130(2):417-24.

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