

## Convolvine Datasheet

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

### [ Product Information ]

**Name:** Convolvine

**Catalog No.:** CFN00186

**Cas No.:** 537-30-4

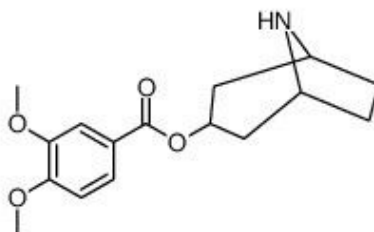
**Purity:** > 95%

**M.F:** C<sub>16</sub>H<sub>21</sub>NO<sub>4</sub>

**M.W:** 291.34

**Physical Description:** Powder

**Synonyms:** Benzoic acid, 3,4-dimethoxy-, 8-azabicyclo[3.2.1]oct-3-yl ester;  
8-azabicyclo[3.2.1]oct-3-yl 3,4-dimethoxybenzoate.



### [ Intended Use ]

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

### [ Source ]

The herbs of *genus Convolvulus*.

### [ Biological Activity or Inhibitors ]

Convolvine and its derivatives exhibit pronounced antihypoxic, immunomodulating, and anti-inflammatory activity.<sup>[1]</sup>

Convolvine blocks the M-receptors of the heart and intestine but raises the sensitivity of the M-receptors of the salivary gland and of the CNS, convolvine has revealed characteristics of a sedative and nootropic agent.<sup>[2]</sup>

Convolvine and its derivatives exhibit cytotoxic activity, the alkaloids N-benzylconvolvine and N-chloroacetylconvolvine at concentrations of 10 ug/mL exhibit the greatest activity against HeLa and Hep cancer cell cultures. <sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]**

Not data available.

### **[ Storage ]**

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

### **[ References ]**

[1] Gapparov A M, Okhunov I I, Aripova S F, *et al. Chem. Nat. Compd*<sup>+</sup>, 2011, 47(4): 608-11.

[2] Mirzaev Y R, Aripova S F. *Chem. Nat. Compd*<sup>+</sup>, 1998, 34(1):56-8.

[3] Tseomashko N E, Terent'Eva E O, Kodigova D B, *et al. Chem. Nat. Compd*<sup>+</sup>, 2013, 48(6):1039-41.

### **[ Contact ]**

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