



Arecoline hydrobromide Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Arecoline hydrobromide

Catalog No.: CFN90799

Cas No.: 300-08-3

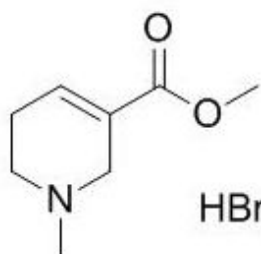
Purity: >=98%

M.F: C₈H₁₄BrNO₂

M.W: 236.11

Physical Description: Powder

Synonyms: Methyl 1,2,5,6-tetrahydro-1-methyl-3-pyridinecarboxylate hydrobromide;
1-Methyl-1,2,5,6-tetrahydro-3-pyridinecarboxylic acid methyl ester hydrobromide;
Arecoline HBr.



[Intended Use]

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

[Source]

The fruits of *Areca catechu*.

[Biological Activity or Inhibitors]

Arecoline hydrobromide has been used for almost half a century for the treatment of *Echinococcus granulosus* in dogs, its main value lies in its use as a diagnostic agent for detecting infections in dogs on a group basis.^[1]

Arecoline hydrobromide appears to exert its anthelmintic action: first, by causing the muscles of cestodes to relax, so that the hold on the host's intestine is lost; secondly, by causing the host to purge, so that the detached worms are removed from the host's body.^[2]

Arecoline hydrobromide has obvious effect of inhibiting thrombus formation in vivo and resolving blood clot and thrombocy hematoplasma clot. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.4 mol/L KH_2PO_4 =1:99 ;

Flow rate: 0.8 ml/min;

Column temperature: 20 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Gemmell M A. *B. World Health Organ.*, 1973, 48(6):649-52.

[2] Batham E J. *Parasitology*, 1946, 37(3-4):185-91.

[3] Tang F, Wang H, Liu W J. *Chinese Journal of Hospital Pharmacy*, 2009, 29(10):791-3.

[4] Song Y, Zhu L, Tan J. *Lishizhen Medicine & Materia Medica Research*, 2006, 17(5):

742-4.

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