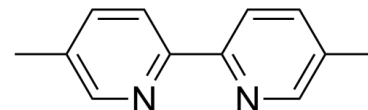


Data Sheet

Product Name:	Abametapir
Cat. No.:	CS-W004546
CAS No.:	1762-34-1
Molecular Formula:	C ₁₂ H ₁₂ N ₂
Molecular Weight:	184.24
Target:	MMP; Parasite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Solubility:	DMSO : 25 mg/mL (135.69 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Abametapir is a **metalloproteinase (MMP)** inhibitor which is able to target metalloproteinases critical to egg hatching and louse development. Abametapir can inhibit hatching of both head and body louse^{[1][2]}. *In Vitro*: Abametapir is capable of chelating heavy metal ions, including iron, copper, and zinc, and is therefore able to interact with a range of targets within the insect that require metal co-factors for function, including metalloproteinases^[2].

References:

[1]. Vernon Morrison Bowles, et al. Effect of a New Head Lice Treatment, Abametapir Lotion, 0.74%, on Louse Eggs: A Randomized, Double-Blind Study. *Glob Pediatr Health*. 2019; 6: 2333794X19831295.

[2]. Vernon M. Bowles, et al. Ovicidal Efficacy of Abametapir Against Eggs of Human Head and Body Lice (Anoplura: Pediculidae). *J Med Entomol*. 2017 Jan; 54(1): 167-172.

CAIndexNames:

2,2'-Bipyridine, 5,5'-dimethyl-

SMILES:

CC1=CN=C(C2=NC=C(C)C=C2)C=C1

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA