


Certificate of Analysis

Catalog Number	BP12687
Product Name	Emetine

Physical and Chemical Properties

Synonyms	Emetin, Cephaeline methyl ether
CAS No.	483-18-1
Chemical Formula	C ₂₉ H ₄₀ N ₂ O ₄
Molecular Weight	480.649
Solubility	DMSO: 10 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Emetine extracted from the roots of the roots is an effective antiprotozoal and emetic agent, and effectively inhibits autophagy, anti-malarial, anti-bacterial and anti-ameba effects.
In vitro	Emetine accumulates SQSTM1 and MAP1LC3B in SNB-19 cells, indicating autophagy is blocked. Emetine dose-dependently decreases NS1 protein level in HEK293 cells infected with the African prototype, ZIKV MR766 (IC ₅₀ =52.9?nM). Emetine directly inhibits ZIKV NS5 RNA polymerase activity with an IC ₅₀ of 121?nM.

In vivo	Emetine (1?mg/kg/day; retro-orbital injection; for six days) reduces the levels of circulating ZIKV approximately 10-fold in three-month-old female SJL mice with ZIKVBR. Emetine (0.002, 0.02, 0.2, 2 mg/kg/day; i.p.) not only attenuates blood glucose levels in dose-dependent way but also induces a persistent attenuation of blood glucose levels in C57Bl/6 male mice (20-25 g) .
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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