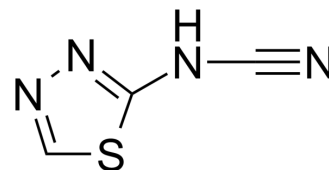


Amitivir

Cat. No.:	HY-106817
CAS No.:	111393-84-1
Molecular Formula:	C ₃ H ₂ N ₄ S
Molecular Weight:	126.14
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amitivir (LY 217896), a thiadiazole derivative, possesses broad antiviral activity against orthomyxo- and paramyxoviruses. Amitivir is effective against influenza A and B viruses ^{[1][2]} .
In Vitro	The mean 50% inhibitory concentration of Amitivir inhibits six strains of type A influenza (A/Russia, A/Brazil/11/78, A/Ann Arbor/1/57, A/Port Chalmers/1/73, A/Hong Kong/8/68 and A/X-15) ranged from 0.37 to 1.19 µg/ml. The mean 50% inhibitory concentration of Amitivir inhibits four strains of influenza B virus (B/Maryland/11/59, B/GreatLakes/1739/54, B/Singapore/3/64, B/Lee/40) ranged from 0.75 to 1.54 µg/ml ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Amitivir (LY 217896) (9 mg/m ² of body surface area per day) administered in the diet, in the drinking water, by oral gavage, by intraperitoneal injection, or by aerosolization was well tolerated and protected CD-1 mice infected with a lethal dose of influenza A or B virus ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hayden FG, et al. Oral LY217896 for prevention of experimental influenza A virus infection and illness in humans. *Antimicrob Agents Chemother.* 1994;38(5):1178-1181.
- [2]. Colacino JM, et al. Evaluation of the anti-influenza virus activities of 1,3,4-thiadiazol-2-ylcyanamide (LY217896) and its sodium salt. *Antimicrob Agents Chemother.* 1990;34(11):2156-2163.

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

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