



Antibiotic Doxycycline Hydrochloride Doxycycline Hyclate CAS 10592-13-9

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBY-Doxycycline Hyclate
- Minimum Order Quantity: 1KG
- Price: Negotiable
- Packaging Details: Aluminum Bag or 25KG/Fibre Drum
- Delivery Time: 3-5 work days after your payment
- Payment Terms: Western Union, T/T,
- Supply Ability: 4000kg/Month



Product Specification

- Name: Antibiotic Doxycycline Hydrochloride
Doxycycline Hyclate CAS 10592-13-9
- CAS: 10592-13-9
- MW: 419.46
- MF: C₁₆H₁₉N₃O₅S·3H₂O
- Appearance: Yellow Powder
- Purity: 99%Min
- Shelf Life: 2 YEARS
- Storage: 2~8 Centigrade



Product Description

What is Antibiotic Doxycycline Hydrochloride Doxycycline Hyclate CAS 10592-13-9?

Basic Information:

Product Name	Antibiotic Doxycycline Hydrochloride Doxycycline Hyclate CAS 10592-13-9
CAS	10592-13-9
Purity	99%min
MF	C ₁₆ H ₁₉ N ₃ O ₅ S·3H ₂ O
MW	419.46
Storage	Keep in a cool, dry, dark location
Deliver Time	Within 24 Hours After Receiving The Payment
MOQ	1KG

Brief Introduction:

Doxycycline hyclate is a semi-synthetic tetracycline antibiotic that can penetrate cell membranes and bind to 30S ribosome subunits, interfering with tRNA/mRNA interactions and ultimately inhibiting protein synthesis. As a broad-spectrum antibiotic and bacteriostasis agent, this antibiotic has very strong resistance mainly to the bacteria that cause respiratory infections including *Mycoplasma pneumoniae* and *Haemophilus influenzae*. In addition, it can also treat chlamydia, rickettsii and some spirochete caused by infection and has antigenic and repellent function.

Doxycycline hydrochloride is also an inhibitor of several matrix metalloproteinases (MMPs), including MMP-8 (neutrophil Collagenase; IC₅₀ = 30 μM) and MMP-1 (Interstitial Collagenase; IC₅₀ = 300 μM). It is reported that it can significantly reduce the expression and activity of MMP-9 in recurrent corneal erosion. In smooth muscle studies, it can enhance and promote smooth muscle cell adhesion, change fibrous collagen matrix reorganization and cell migration. It also inhibits inflammation caused by Lyme Disease and interferes with the plasminogen system to protect microvessels.

Doxycycline hydrochloride is also commonly used in tet-ON (RTTA-dependent) and TET-OFF (TTA-dependent) systems to regulate gene expression, both in vivo and in vitro cell cultures. This product is a USP grade reagent with a solubility of approximately 50 mg/mL in water and heated moderately to promote complete dissolution. According to the literature, it can also dissolve in DMSO (~1 mg/mL) and methanol, insoluble in chloroform and ether.

Product Image:





Function:

1. As a broad-spectrum antibiotic and bacteriostasis agent, this antibiotic has very strong resistance mainly to the bacteria that cause respiratory infections including *Mycoplasma pneumoniae* and *Haemophilus influenzae*. In addition, it can also treat chlamydia, rickettsii and some spirochete caused by infection and has antigenic and repellent function.
2. It also inhibits inflammation caused by Lyme Disease and interferes with the plasminogen system to protect microvessels.
3. Doxycycline hyclate is an effective treatment for acute *E. Canis* infection in puppies.

Package and Shipping of Antibiotic Doxycycline Hydrochloride Doxycycline Hyclate CAS 10592-13-9

Under 25kg: inner: A PE bag in aluminum foil bag; Outside: carton

Over 25kg: inner: Double PE bags; Outside: 25kg/ fibre drum



Shipping:

With 3-5 work days after your payment

FAQ of Antibiotic Doxycycline Hydrochloride Doxycycline Hyclate CAS 10592-13-9

Q1: Do you Accept Sample Order?

A: Yes. The smallest order we accept is 1kg.

Q2: Do you accept VISA business credit card?

A: Yes. VISA business credit card is in our payment .

Q3: Is there any discount?

A: Yes, if you want to purchase larger quantity, we can offer a better price for you.

Q4: How long does it take to me if I order?

A: About 3-5 days upon receipt of payment.

Q5: What kind of transportation do you have?

A: We have many ways of transportations, eg: Air, Sea, Special Lines, TNT, FEDEX, EMS, ect.



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