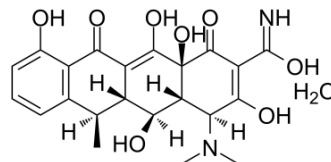


Doxycycline monohydrate

Cat. No.:	HY-W008923
CAS No.:	17086-28-1
Molecular Formula:	C ₂₂ H ₂₆ N ₂ O ₉
Molecular Weight:	462.45
Target:	MMP; Bacterial; Parasite; Antibiotic
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Doxycycline monohydrate is an antibiotic and broad-spectrum metalloproteinase (MMP) inhibitor ^{[1][2][3][4]} .
IC ₅₀ & Target	MMP ^[1]

CUSTOMER VALIDATION

- Mol Cancer. 2020 Sep 9;19(1):139.
- Cell Death Differ. 2019 Nov;26(11):2400-2415.
- Cancer Lett. 2016 Jun 28;376(1):188-96.
- Cell Death Dis. 2017 Mar 23;8(3):e2702.
- J Genet Genomics. 2020 Oct 26.

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REFERENCES

- [1]. Wilfried Briest, et al. Doxycycline ameliorates the susceptibility to aortic lesions in a mouse model for the vascular type of Ehlers-Danlos syndrome. J Pharmacol Exp Ther. 2011 Jun;337(3):621-7.
- [2]. Zhang N, et al. The PK/PD Interactions of Doxycycline against Mycoplasma gallisepticum. Front Microbiol. 2016 May 4;7:653.
- [3]. Trajano VC, et al. Osteogenic activity of cyclodextrin-encapsulated doxycycline in a calcium phosphate PCL and PLGA composite. Mater Sci Eng C Mater Biol Appl. 2016 Jul 1;64:370-5.
- [4]. Morales R, et al. Inhibition of extracellular matrix production and remodeling by doxycycline in smooth muscle cells. J Pharmacol Sci. 2016 Mar 25. Epub ahead of print.

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

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