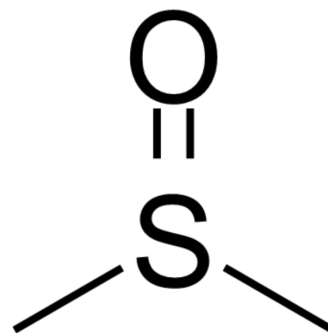


Dimethyl sulfoxide

Cat. No.:	HY-Y0320
CAS No.:	67-68-5
Molecular Formula:	C ₂ H ₆ OS
Molecular Weight:	78.13
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (1279.92 mM; Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Dimethyl sulfoxide (DMSO) is an aprotic solvent that dissolves both polar and nonpolar compounds. Dimethyl sulfoxide has anti-freezing and bacteriostatic properties ^{[1][2]} .
In Vitro	DMSO is an organic solvent that is freely miscible with water, lipids and organic agents. These properties allow for exceptional membrane penetration. The mechanism of action of DMSO is thought to be a combination of anti-inflammatory effects, nerve blockade, smooth muscle relaxation, and collagen inhibition ^[2] . DMSO (HY-Y0320) can be used for compound dissolution, and is not recommended for cell cryopreservation. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 Sep 25;8(1):366.
- Ann Rheum Dis. 2022 May;81(5):676-686.
- ACS Nano. 2023 Oct 2.
- Nat Commun. 2023 Dec 1;14(1):7940.
- Nat Protoc. 2022 May;17(5):1266-1305.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. C F Brayton. Dimethyl sulfoxide (DMSO): a review. Cornell Vet. 1986 Jan;76(1):61-90.

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

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