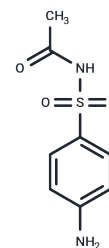


Sulfacetamide

Chemical Properties

CAS No. :	144-80-9
Formula:	C ₈ H ₁₀ N ₂ O ₃ S
Molecular Weight:	214.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sulfacetamide (NSC-63871) is used to treat blepharitis or conjunctivitis (in eye-drop solution) by limiting the presence of folic acid which bacteria need to survive. Sulfacetamide may serve as a treatment for mild forms of hidradenitis suppurativa. It is also used to control acne.
Targets(IC50)	Antibacterial, Antibiotic, Antifungal

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 55 mg/mL (256.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.34 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6677 mL	23.3383 mL	46.6766 mL
5 mM	0.9335 mL	4.6677 mL	9.3353 mL
10 mM	0.4668 mL	2.3338 mL	4.6677 mL
50 mM	0.0934 mL	0.4668 mL	0.9335 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Bartlett KB, Davis SA, Feldman SR. Tolerability of topical antimicrobials in treatment of acne vulgaris. *J Drugs Dermatol.* 2014 Jun;13(6):658-62. Review. PubMed PMID: 24918554.
- Tüzün Y, Wolf R, Kutlubay Z, Karakuş O, Engin B. Rosacea and rhinophyma. *Clin Dermatol.* 2014 Jan-Feb;32(1):35-46. doi: 10.1016/j.clindermatol.2013.05.024. Review. PubMed PMID: 24314376.
- Emer J, Waldorf H, Berson D. Botanicals and anti-inflammatories: natural ingredients for rosacea. *Semin Cutan Med Surg.* 2011 Sep;30(3):148-55. doi: 10.1016/j.sder.2011.05.007. Review. PubMed PMID: 21925368.
- van Zuuren EJ, Kramer SF, Carter BR, Graber MA, Fedorowicz Z. Effective and evidence-based management strategies for rosacea: summary of a Cochrane systematic review. *Br J Dermatol.* 2011 Oct;165(4):760-81. doi: 10.1111/j.1365-2133.2011.10473.x. Epub 2011 Sep 15. Review. PubMed PMID: 21692773.

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