

CENTA

Chemical Properties

CAS No. : 80072-86-2

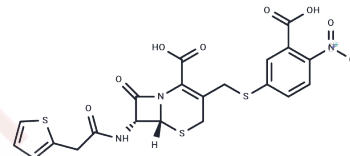
Formula: C₂₁H₁₇N₃O₈S₃

Molecular Weight: 535.57

Store at low temperature

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	CENTA is a newly synthesized β -lactamase-unstable colorimetric cephalosporin reagent that is readily hydrolyzed by all classes of β -lactamases except <i>Aeromonas hydrophila</i> metalloenzymes.
Targets(IC50)	Others,Antibacterial
In vitro	<i>Proteus mirabilis</i> , <i>Klebsiella</i> spp., <i>Escherichia coli</i> , and <i>Citrobacter diversus</i> strains were significantly inhibited by CENTA (MIC for 50% of isolates [MIC ₅₀] = 32 μ g/ml). CENTA showed the best anti- <i>Haemophilus</i> activity, generally 16- to 128-fold more potent than either PADAC or nitrocefim. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8672 mL	9.3358 mL	18.6717 mL
5 mM	0.3734 mL	1.8672 mL	3.7343 mL
10 mM	0.1867 mL	0.9336 mL	1.8672 mL
50 mM	0.0373 mL	0.1867 mL	0.3734 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

Jones RN, et al. In vitro evaluation of CENTA, a new beta-lactamase-susceptible chromogenic cephalosporin reagent. *J Clin Microbiol.* 1982 May;15(5):954-8.

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Romero-Pareja PM, Aragon CA, Quiroga JM, Coello MD. Evaluation of a biological wastewater treatment system combining an OSA process with ultrasound for sludge reduction. *Ultrason Sonochem.* 2017 May;36:336-342. doi: 10.1016/j.ultsonch.2016.12.006. Epub 2016 Dec 10. PubMed PMID: 28069218.

Kontuľ I, Jeřkovský M, Kaizer J, Šivo A, Richtáriková M, Povinec PP, Čech P, Steier P, Golser R. Radiocarbon concentration in tree-ring samples collected in the south-west Slovakia (1974-2013). *Appl Radiat Isot.* 2016 Dec 3. pii: S0969-8043(16)30518-8. doi: 10.1016/j.apradiso.2016.12.001. [Epub ahead of print] PubMed PMID: 27988243.

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