
Product Data Sheet

Product Name: CENTA
Cat. No.: GC47071

Chemical Properties

Cas. No. 80072-86-2

SMILES O=C(C(N12)=C(CSC3=CC=C([N+])([O-])=O)C(C(O)=O)=C3)CS[C@]2([H])[C@H](NC(CC4=CC=CS4)=O)C1=O)O

Formula $C_{21}H_{17}N_3O_8S_3$ M.Wt 535.6

Solubility Methanol: soluble Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

CENTA is a colorimetric cephalosporin substrate for β -lactamases.^{1,2} Upon hydrolysis by β -lactamases, CENTA turns from light yellow to chrome yellow, which can be quantified by colorimetric detection at 405 nm as a measure of β -lactamase activity.

1. Jones, R.N., Wilson, H.W., Novick Jr., W.J., et al. In vitro evaluation of CENTA, a new beta-lactamase-susceptible chromogenic cephalosporin reagent]. Clin.

Microbiol.15(5)954-958(1982) 2. Bebrone, C., Moali, C., Rival, S., et al. CENTA as a chromogenic substrate for studying beta-lactamases Antimicrob. Agents Chemother.45(6)1868-1871(2001)

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

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