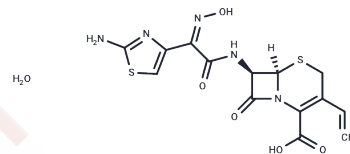


## Cefdinir monohydrate

## Chemical Properties

CAS No. :	213978-34-8
Formula:	C <sub>14</sub> H <sub>15</sub> N <sub>5</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	413.42
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	Cefdinir monohydrate is the salt form of Cefdinir (free base), a semi-synthetic cephalosporin and a beta-lactam antibiotic with bactericidal activity. Cefdinir's effect is dependent on its binding to penicillin-binding proteins (PBPs) located in the bacterial cytoplasmic membrane. Binding results in the inhibition of the transpeptidase enzymes, thereby preventing cross-linking of the pentaglycine bridge with the fourth residue of the pentapeptide and interrupting consequent synthesis of peptidoglycan chains. As a result, cefdinir inhibits bacterial septum and cell wall synthesis formation.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4188 mL	12.0942 mL	24.1885 mL
5 mM	0.4838 mL	2.4188 mL	4.8377 mL
10 mM	0.2419 mL	1.2094 mL	2.4188 mL
50 mM	0.0484 mL	0.2419 mL	0.4838 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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