



Cefotaxime Sodium Salt

Broad-spectrum antibiotic, Effective against Methicillin and Tetracycline resistant bacteria

Cefotaxime Sodium Salt is a broad-spectrum cephalosporin antibiotic. Cefotaxime is effective against methicillin and Tetracycline resistant bacteria. It binds to 50S ribosomal subunit and inhibits bacterial growth.

Cat. Number	AS-2027
CAS Number	64485-93-4
Additional CAS	63527-52-6 (acid)
MDL Number	MFCD00079073
Pubchem	310269492
Molecular Weight	477.40 gr/mol
Molecular Formula	$C_{16}H_{16}N_5NaO_7S_2$
Storage Temperature	+4°C
Form and Color	Powder to Crystalline Powder / White to light yellow
Solubility (10% in water)	Clear, Colorless to yellow solution
Absorbance	430 nm: ≤ 0.2
pH Value	4.5 – 6.5
Specific Optical Rotation	58 – 64 °
Total impurities (HPLC)	$\leq 3\%$
Assay (dried basis)	916 – 964 $\mu\text{g}/\text{mg}$
Loss on Drying	$\leq 3\%$
¹ H-NMR Spectrum	Corresponds to assigned structure