

Ampicillin, 25G**PG-9330-25G**

Ampicillin is a β -lactam antibiotic widely used in microbiology and molecular biology. It works by inhibiting bacterial cell wall synthesis. In laboratory applications, it is commonly used as a selective agent to maintain plasmids in bacteria that carry ampicillin resistance genes.

Parameter	Details
Product Name	Ampicillin
Description	β -lactam antibiotic used for bacterial selection in molecular biology and microbiology applications)
Appearance	White to off-white crystalline powder
Formula	$C_{16}H_{19}N_3O_4S$
Solubility	Soluble in water
pH (1% Solution)	8.0 – 10.0
CAS Number	69-53-4
Storage Condition	Store at 2–8°C or –20°C, protected from moisture
Applications / Uses	Used for bacterial selection, plasmid maintenance, and molecular biology research

Safety

For laboratory use only. Harmful if swallowed or inhaled. May cause irritation to skin, eyes, and respiratory system. Avoid direct contact and inhalation of dust. Wear appropriate PPE including gloves, lab coat, and safety glasses. Store in a cool, dry place (2–8°C or –20°C) away from moisture. Dispose of waste according to local laboratory regulations