

**G418 Sulfate****PG-958-1g**

An aminoglycoside antibiotic used as a **selective agent in molecular biology** for the selection of genetically engineered eukaryotic and prokaryotic cells carrying the **neo (kanamycin resistance) gene**. It inhibits protein synthesis at the ribosomal level.

<b>Parameter</b>	<b>Details</b>
<b>Product Name</b>	G418 Sulfate
<b>Description</b>	Aminoglycoside antibiotic used for selection of genetically modified eukaryotic cells
<b>Molecular Weight</b>	692.7 g/mol
<b>Appearance</b>	White to off-white powde
<b>Formula</b>	$C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
<b>Solubility</b>	Highly soluble in water
<b>pH (1% Solution)</b>	6.0–7.5
<b>CAS Number</b>	108321-42-2
<b>Storage Condition</b>	Powder: 2–8°C, dry, tightly sealed
<b>Applications / Uses</b>	Used for selecting stable mammalian transfectants, maintaining <b>neo</b> -resistant cells, and supporting cell culture, cell line development, and recombinant protein production.

**Safety**

Handle in accordance with good laboratory practices. Avoid inhalation of dust and contact with skin, eyes, and clothing. Wear appropriate personal protective equipment (lab coat, gloves, and safety glasses). Wash thoroughly after handling. In case of contact with eyes or skin, rinse immediately with plenty of water.