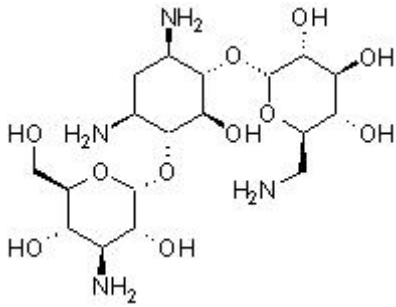


## Kanamycin Sulfate

### Molecular structure



### Product Description

Kanamycin sulfate is a broad spectrum aminoglycoside-antibiotic derived from *Streptomyces kanamyceticus*. It binds to the 70S ribosomal subunit, inhibits translocation, and elicits miscoding. Kanamycin sulfate can also be used as a selection agent for *cells* transformed with kanamycin B resistance gene. It is suitable for use in plant cell culture.

### Product Specification

<b>Mode of Action:</b>	Kanamycin works by interfering with protein synthesis. It binds to the 30S subunit of the bacterial ribosome. This results in incorrect alignment with the mRNA and eventually leads to a misread that causes the wrong amino acid to be placed into the peptide.
<b>Conferred Resistance:</b>	the common component of most GM crops is the neomycin phosphotransferase II gene (nptII), which confers resistance to the antibiotics kanamycin and neomycin. The nptII gene is present in GM crops as a marker gene to select transformed plant cells during the first steps of the transformation process.
<b>Molecular weight:</b>	582.6g/mol
<b>Formula:</b>	C <sub>18</sub> H <sub>38</sub> N <sub>4</sub> O <sub>15</sub> S
<b>Appearance:</b>	Liquid: yellow liquid Powder: off white powder
<b>Working Concentration:</b>	Powder: 50 µg/mL Liquid: 10mL/Litre

**Solubility:** Powder: H<sub>2</sub>O

**Storage and Stability:** Powder: 15°C to 30°C  
Liquid: -15°C to -25°C  
Protect from light

## Ordering information

Cat. No.	Description	Unit Size	Qty/Pk
30-006 CF	Kanamycin Sulfate liquid 5000µg/mL solution	6 x 50 mL	1
61-176 RG	KanamycinSulphate Powder	5g	1

**For Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.**

## Support

Life Science Production is a division of Life Science Group Ltd.  
Life Science Production is [ISIA Traceability Certified](#)  
Life Science Group Ltd is an ISO 9001:2015 Certified company

To learn more, contact us:  
Telephone: +44 (0) 1234 889180  
Email: [sales@lifesciencegroup.co.uk](mailto:sales@lifesciencegroup.co.uk)  
Website: [www.lifescienceproduction.co.uk](http://www.lifescienceproduction.co.uk)  
Address: PO Box 1519, Bedford, United Kingdom