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## DATASHEET

Kirromycin

### Product overview

<b>Name</b>	Kirromycin
<b>Cat No</b>	HB3951
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>96%
<b>Description</b>	Antibacterial antibiotic and protein synthesis inhibitor

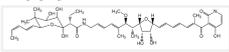
### Biological Data

<b>Biological description</b>	Antibiotic. Member of the elfermycin group. Antibacterial. Protein biosynthesis inhibitor. Specifically interacts with the bacterial elongation factor EF-Tu and prevents the release of EF-Tu from the bacterial ribosome after GTP hydrolysis. In the absence of ribosomes it induces EF-Tu-dependent hydrolysis of GTP. Animal growth promoter used in poultry breeding.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-[7-[5-[7-(2,4-dioxo-1H-pyridin-3-ylidene)-7-hydroxy-6-methylhepta-1,3,5-trienyl]-3,4-dihydroxyoxolan-2-yl]-6-methoxy-5-methylocta-2,4-dienyl]-2-(2,3,4-trihydroxy-5,5-dimethyl-6-penta-1,3-dienyloxan-2-yl)butanamide
<b>Molecular Weight</b>	796.9
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>42</sub> H <sub>60</sub> N <sub>2</sub> O <sub>12</sub>
<b>CAS Number</b>	50935-71-2
<b>PubChem identifier</b>	54706480
<b>SMILES</b>	CCC(C(=O)NCC=CC=C(C)C(C(C)C1C(C(C(O1)C=CC=CC=C(C)C(=C2C(=O)C=CNC2=O)O)O)O)O)C)C3(C(C(C(C(O3)C=CC=CC(C)C)O)O)O)O
<b>InChi</b>	InChI=1S/C42H60N2O12/c1-9-11-13-21-31-42(6,7)38(50)39(51)43(54,57-31)28(10-2)40(52)44-23-17-16-19-26(4)36(55-8)27(5)37-35(49)34(48)30(56-37)20-15-12-14-18-25(3)33(47)32-29(46)22-24-45-41(32)53/h9,11-22,24,27-28,30-31,34-39,47-51,54H,10,23H2,1-8H3,(H,44,52
<b>InChiKey</b>	HMSYAPGFKGSXAJ-PAHGNTJYSA-N
<b>MDL number</b>	MFCD00467139