

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Kirromycin

Product overview

Name	Kirromycin
Cat No	HB3951
Purity	>96%
Description	Antibacterial antibiotic and protein synthesis inhibitor

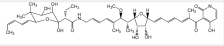
Biological Data

Biological description	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.
-------------------------------	---

Solubility & Handling

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

Chemical Data

Chemical name	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
Molecular Weight	796.9
Chemical structure	
Molecular Formula	C ₄₂ H ₆₀ N ₂ O ₁₂
CAS Number	50935-71-2
PubChem identifier	54706480
SMILES	<chem>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)C)C3(C(C(C(C(O3)C=CC=CC(C)C)O)O)O</chem>
InChi	InChI=1S/C43H60N2O12/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
InChiKey	HMSYAPGFKGSXAJ-PAHGNTJYSA-N
MDL number	MFCD00467139