



Product Information

Steviolbioside

Cat. No.: X22-05-ZQ105

Size: 5 mg; 20 mg; 50 mg; 100 mg

CAS Number: 41093-60-1

Compound CID: 16401639

Synonym: 41093-60-1; Steviolbioside; (-)-Steviolbioside;

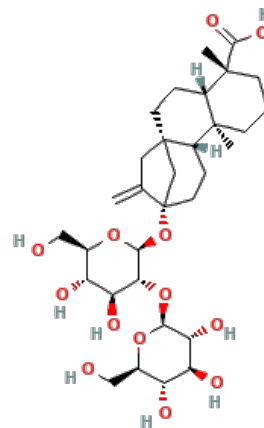
(1*R*,4*S*,5*R*,9*S*,10*R*,13*S*)-13-[(2*S*,3*R*,4*S*,5*S*,6*R*

)-4,5-Dihydroxy-6-(hydroxymethyl)-3-[(2*S*,3*R*,4*S*,5*S*,6*R*

)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoxan-2-yl]oxy-5,9-dimethyl-14-methy

lidenetetracyclo[11.2.1.01,10.04,9]hexadecane-5-carboxylic acid

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Steviolbioside, a natural sweetener, exhibits moderate antituberculosis activity against <i>M. tuberculosis</i> strain H37RV <i>in vitro</i> .
Molecular Weight	642.739
Molecular Formula	C ₃₂ H ₅₀ O ₁₃
IUPAC Name	(1 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> ,13 <i>S</i>)-13-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i>)-4,5-Dihydroxy-6-(hydroxymethyl)-3-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i>)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoxan-2-yl]oxy-5,9-dimethyl-14-methylidenetetracyclo[11.2.1.01,10.04,9]hexadecane-5-carboxylic acid
InChI	InChI=1S/C32H50O13/c1-15-11-31-9-5-18-29(2,7-4-8-30(18,3)28(40)41)19(31)6-10-32(15,14-31)45-27-25(23(38)21(36)17(13-34)43-27)44-26-24(39)22(37)20(35)16(12-33)42-26/h16-27,33-39H,1,4-14H2,2-3H3,(H,40,41)/t16-,17-,18+,19+,20-,21-,22+,23+,24-,25-,26+,27+,29-,30-,31-,32+/m1/s1
InChI Key	OMHUCGDTACNQEX-OSHKXICASA-N
Canonical SMILES	CC12CCCC(C1CCC ₃₄ C2CCC(C3)(C(=C)C4)OC5C(C(C(C(O5)CO)O)O)OC6C(C(C(C(O6)CO)O)O)O)(C)C(=O)O
Isomeric SMILES	C[C@@]12CCC[C@@]([C@H]1CC[C@]34[C@H]2CC[C@](C3)(C(=C)C4)O[C@H]5[C@@H]([C@H]([C@@H]([C@H](O5)CO)O)O)O[C@H]6[C@@H]([C@H]([C@@H]([C@H](O6)CO)O)O)O)(C)C(=O)O
Form	Powder
Purity	≥98%, determined by HPLC.



Identity	Confirmed by MS and NMR.
Stability	The product is stable for two years when stored at the recommended temperature.
Applications	Steviolbioside can be used in the research of anti-tuberculosis drugs.
Storage	Store at 4°C. Protect from light.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
--------------------------------------	------------------------------
