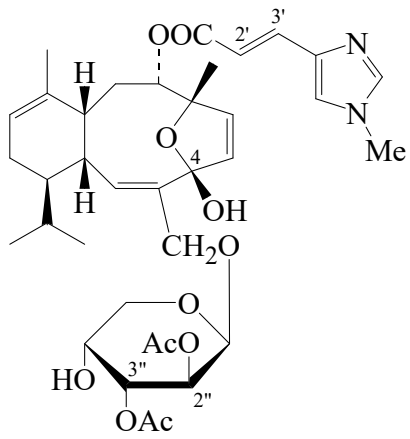
>>**Entry Name: Eleuthoside A**



CAS Registry Number: 180692-76-6
Type of Compound Code(s): VX6920 VS6440

Molecular Formula: $C_{36}H_{48}N_2O_{11}$
Molecular Weight: 684.782
Accurate Mass: 684.325813
Percentage Composition: C 63.14%; H 7.06%; N 4.09%; O 25.70%
Biological Source: Constit. of *Eleutherobia aurea*
Physical Description: Oil
Optical Rotation: $[\alpha]_D$ –9 (c, 0.2 in $CHCl_3$)

>>**Derivative:** 3"-De-Ac
Synonym(s): Desmethyleleutherobin. Demethyleleutherobin

CAS Registry Number: 259670-83-2
Type of Compound Code(s): VX6920 VS6440
Molecular Formula: $C_{34}H_{46}N_2O_{10}$
Molecular Weight: 642.745
Accurate Mass: 642.315248
Percentage Composition: C 63.54%; H 7.21%; N 4.36%; O 24.89%
Biological Source: Constit. of *Erythropodium caribaeorum*

>>**Derivative:** 4-Me ether, 2"-de-Ac
Synonym(s): Isoeleutherobin A

CAS Registry Number: 259728-67-1
Type of Compound Code(s): VS6440 VX6920
Molecular Formula: $C_{35}H_{48}N_2O_{10}$
Molecular Weight: 656.772
Accurate Mass: 656.330898
Percentage Composition: C 64.01%; H 7.37%; N 4.27%; O 24.36%
Biological Source: Constit. of *Erythropodium caribaeorum*

>>**Derivative:** 4-Me ether, 3"-de-Ac
Synonym(s): Eleutherobin

CAS Registry Number: 174545-76-7
Type of Compound Code(s): VS6440 VX6920
Molecular Formula: $C_{35}H_{48}N_2O_{10}$
Molecular Weight: 656.772
Accurate Mass: 656.330898
Percentage Composition: C 64.01%; H 7.37%; N 4.27%; O 24.36%
Biological Source: Isol. from the soft coral *Eleutherobia* cf. *albiflora* and *Erythropodium caribaeorum*
Biological Use/Importance: Cytotoxin with microtubule stabilising props.
Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D^{25}$–49.3 (c, 3 in MeOH)
UV: [neutral] λ_{max} 290 (log ε 3.82) (MeOH)