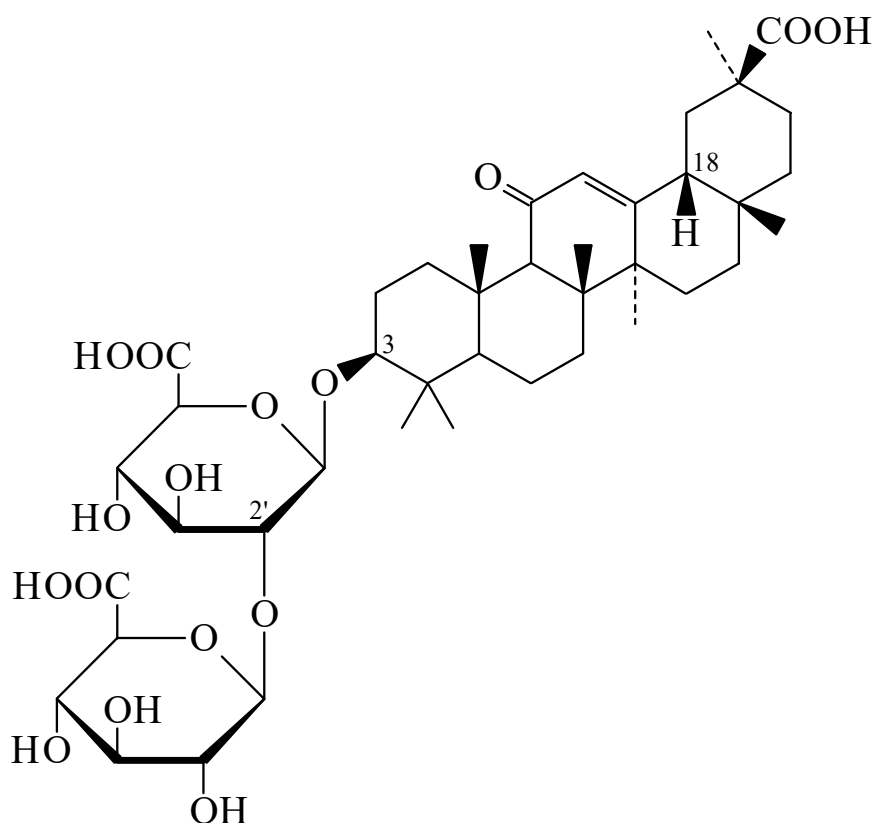




>>Entry Name: Glycyrrhizic acid

Synonym(s): Glycyrrhetic acid 3-*O*-[β -D-glucuronopyranosyl-(1 $\rightarrow$ 2)- β -D-glucuronopyranoside]. Glycyrrhizinic acid. Dermacrin. Glycyrrhitin. **Glycyrrhizin**, JAN



CAS Registry Number: 1405-86-3

Related CAS Registry Numbers(s): 42294-03-1 56649-78-6

Molecular Formula: C₄₂H₆₂O₁₆

Molecular Weight: 822.942

Accurate Mass: 822.40379

Percentage Composition: C 61.30%; H 7.59%; O 31.11%

Biological Source: Isol. from *Glycyrrhiza glabra* (liquorice), also from *Polypodium vulgare*, *Pradosia* and *Periandra* spp.

Use/Importance: 11 β -Hydroxysteroid dehydrogenase inhibitor. Antiinflammatory, expectorant and antihemorrhagic agent; shows anti-HIV activity

Physical Description: Cryst. (AcOH) or hygroscopic powder

Melting Point: Mp 220 approx.°

Optical Rotation: $[\alpha]_D^{17} +46.2$ (c, 1.5 in EtOH)

Calculated Log P Data: Log P 2.09 (uncertain value) (calc)

Hazard & Toxicity: Adverse effects of hypermineralocorticoidism result from excessive intake. LD_{Lo} (rat, orl) 3000 mg/kg. LD_{Lo} (rat, ipr) 2000 mg/kg

Sigma: G6753

>>Derivative: NH₄ salt

Synonym(s): Chiyorhizin AN. Glyciram. Glycyrram. Rizinsan A. Glycamil

CAS Registry Number: 53956-04-0

Extra CAS Registry Numbers(s): 1407-03-0

Use/Importance: Antiulcer agent. Antilipidaemic

Physical Description: Needles + 5H₂O (EtOH aq.)

Optical Rotation: $[\alpha]_D^{20} +46.9$ (EtOH aq.)

Other Data: Dec. at 212-217°

Hazard & Toxicity: Exp. embryotoxic effects

Fluka: 50531

Sigma: G2137

>>Derivative: Di-K salt

Synonym(s): Glycyrrhizinate dipotassium, JAN

CAS Registry Number: 68797-35-3