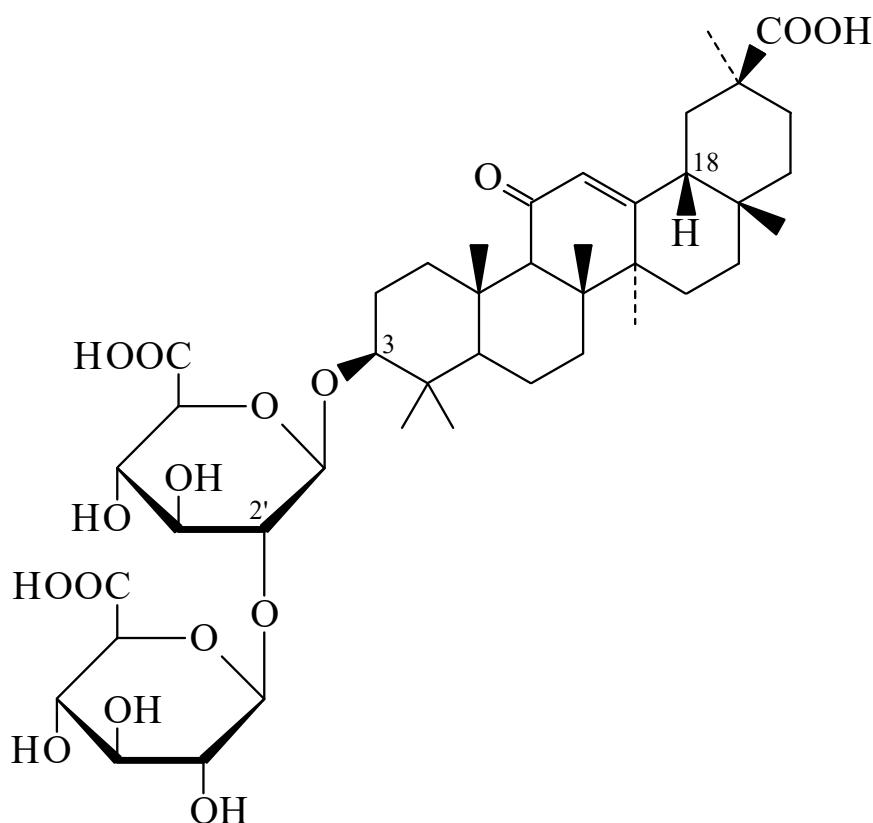




>>Entry Name: Glycyrrhizic acid

**Synonym(s):** Glycyrrhetic acid 3-*O*-[β-D-glucuronopyranosyl-(1→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:** C<sub>42</sub>H<sub>62</sub>O<sub>16</sub>

**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:** 11β-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:** [α]<sub>D</sub><sup>17</sup>+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<sub>Lo</sub> (rat, orl) 3000 mg/kg. LD<sub>Lo</sub> (rat, ipr) 2000 mg/kg

**Sigma:** G6753

>>Derivative: NH<sub>4</sub> 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 + 5H<sub>2</sub>O (EtOH aq.)

**Optical Rotation:** [α]<sub>D</sub><sup>20</sup>+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