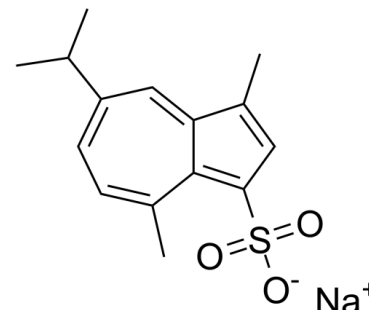


Data Sheet

Product Name:	Sodium gualenate
Cat. No.:	CS-7928
CAS No.:	6223-35-4
Molecular Formula:	C ₁₅ H ₁₇ NaO ₃ S
Molecular Weight:	300.35
Target:	Others
Pathway:	Others
Solubility:	DMSO : 30 mg/mL (99.88 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Sodium gualenate (Guaiazulenesulfonate sodium) is a hydrophilic derivative of guaiazulene with excellent anti-inflammatory and wound-healing effects mainly used for the treatment of duodenal ulcer, gastric ulcer and gastritis. **In Vitro:** Sodium gualenate is an unstable compound, which is gradually decomposed in the solid state at room temperature. When heated, Sodium gualenate decomposes almost completely within 1 week. It was found that a kneaded mixture of Sodium gualenate and cornstarch (weight ratio; 1:250) for tableting with water is stable. So, during production, Sodium gualenate could be stabilized using water^[1]. Sodium gualenate slightly inhibits the histamine release from rat peritoneal mast cells and strongly inhibits the leukocyte emigration induced by fMLP^[2]. **In Vivo:** Sodium gualenate has been frequently used for the treatment of human gastritis. Cytoprotection is defined as the main mechanism of Sodium gualenate to protect the mucosa of the stomach and the antipeptic actions in vivo have also been shown^[2].

References:

- [1]. Nakamichi K, et al. Stabilization of sodium guaiazulene sulfonate in granules for tableting prepared using a twin-screw extruder. *Eur J Pharm Biopharm.* 2003 Nov;56(3):347-54.
- [2]. Cao T, et al. Synthesis and Biological Evaluation of 3, 8-dimethyl-5-isopropylazulene Derivatives as Anti-gastric Ulcer Agent. *Chem Biol Drug Des.* 2016 Aug;88(2):264-71.

CAIndexNames:

1-Azulenesulfonic acid, 3,8-dimethyl-5-(1-methylethyl)-, sodium salt (1:1)

SMILES:

O=S(C1=C2C(C)=CC=C(C(C)C)C=C2C(C)=C1)([O-])=O.[Na+]

Caution: Product has not been fully validated for medical applications. For research use only.

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