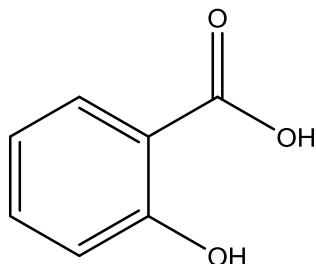


Product Information Sheet**S7530
Salicylic Acid**

Synonym: 2-Hydroxybenzoic acid, SA

CAS: 69-72-7

Formula: C₇H₆O₃

Molecular Wt: 138.12

Properties

Form: Powder

Appearance: White to Off-White

Application: Plant Defense and Immunity

Solubility: 2.0 mg/mL water or at room temperature, 50 mg/mL in ethanol

Storage Temp: RT

Other Notes: Keep protected from light

Application Notes

In the early 1990s, SA was identified as an endogenous signaling chemical that accompanied systemic acquired response (SAR) (Métraux *et al.*, 1990). Since then, it has been found to be a master regulator of local and systemic defense responses in plants against pathogens (Loake and Grant, 2007).

SA is synthesized in plants through one of two pathways in different parts of the plant cell. The phenylpropanoid route occurs in the cytoplasm & the isochorismate pathway occurs in the chloroplast (Rivas-San Vicente and Plasencia, 2011).

SA has also been documented to induce flowering or flower bud formation in plants, specifically in tobacco callus at 4 μM concentration (Lee and Skoog, 1965), *Lemna gibba* (Cleland and Ajami, 1974), and multiple species in the Lemnaceae family at a concentration of 3-10 μM (Khurana and Cleland, 1992).

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Product Information Sheet

References

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