4-Chlorosalicylic acid

Cat. No.: HY-W016867
CAS No.: 5106-98-9
Molecular Formula: $\text{C}_7\text{H}_5\text{ClO}_3$
Molecular Weight: 172.56
Target: Fungal; Bacterial
Pathway: Anti-infection
Storage:
- Powder: -20°C, 3 years; 4°C, 2 years
- In solvent: -80°C, 6 months; -20°C, 1 month

BIOLOGICAL ACTIVITY

Description
4-Chlorosalicylic acid is a pharmaceutical intermediate. Inhibits monophenolase and diphenolase activity with $\text{IC}_{50}$s of 1.89 mM and 1.10 mM. Potent antimicrobial activity. Against E. coli with the MIC of 250 μg/mL and with the MBC of 500 μg/mL.

IC$_{50}$ & Target
IC50: 1.89 mM (monophenolase), 1.10 mM (diphenolase)[1]

In Vitro
4-chlorosalicylic acid could inhibit both the diphenolase activity and the monophenolase activity of mushroom tyrosinase. 4-chlorosalicylic acid has broad-spectrum antimicrobial activity which could inhibits Gram-positive and Gram-negative bacteria and fungi[1].

REFERENCES

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA