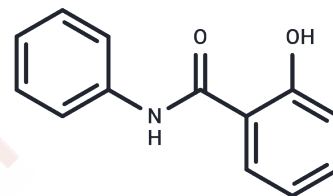


Salicylanilide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 87-17-2 |
| Formula: | C ₁₃ H ₁₁ NO ₂ |
| Molecular Weight: | 213.23 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|---|
| Description | Salicylanilide (2-Hydroxybenzanilide)s are a group of compounds with antiviral potency, antibacterial and antifungal activities. |
| Targets(IC50) | HIV Protease,Reverse Transcriptase |
| In vitro | Some salicylanilides and salicylamides could inhibit HIV virus by targeting of HIV-1 integrase or reverse transcriptase. Hepatitis C virus could be potentially afflicted by salicylanilides on the level of two enzymes - NS3 protease and NS5B RNA polymerase. Nitazoxanide is a nitrothiazole derivative of salicylamide useful for the treatment of protozoal and bacterial infections with an extended range of antiviral activity and innovative mechanism of action, especially against hepatitis and influenza viruses or rotaviruses. Nitazoxanide, its metabolite tizoxanide and their derivatives are a very promising stream in the development of new antiviral compounds.[1] Salicylanilides is potential virulence inhibitors attributable to a blockade of the type III secretion pathway. Many salicylanilide ester derivatives have been demonstrated an effective and promising treatment against pathogenic fungi and bacteria (especially against Gram-positive, tuberculous and atypical mycobacterial strains), including strains such as methicillinresistant Staphylococcus aureus and isoniazid-resistant mycobacteria which are resistant to one or more clinically used drugs.[2] |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: < 1 mg/mL (insoluble), Ethanol: 15 mg/mL (70.35 mM),Sonication is recommended. DMSO: 50 mg/mL (234.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 4.6898 mL | 23.4489 mL | 46.8977 mL |
| 5 mM | 0.938 mL | 4.6898 mL | 9.3795 mL |
| 10 mM | 0.469 mL | 2.3449 mL | 4.6898 mL |
| 50 mM | 0.0938 mL | 0.469 mL | 0.938 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Krátký M, et al. Mini Rev Med Chem, 2011, 11(11), 956-967

Krátký M, et al. Curr Pharm Des, 2011, 17(32), 3494-3505

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