Salicylanilide

Catalog No.C09994 Batch:C0999403

Product Datasheet

Technical Data

Formula	$C_{13}H_{11}NO_2$					
Molecular Weight	213.23	**CAS No.**	87-17-2			
Solubility (25°C)*	In vitro	DMSO	43 mg/mL (201.66 mM)			
		Ethanol	18 mg/mL (84.41 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	4.6898 mL	23.4489 mL	46.8977 mL
5 mM	0.9380 mL	4.6898 mL	9.3795 mL
10 mM	0.4690 mL	2.3449 mL	4.6898 mL
50 mM	0.0938 mL	0.4690 mL	0.9380 mL

Biological Activity

Description	Salicylanilides (WR10019,2-Hydroxybenzanilide) are a group of compounds with a wide range of biological activities including antiviral potency, antibacterial (including antimycobacterial) and antifungal activities.
Targets	reverse transcriptase [1] integrase [1]
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]

References

https://pubmed.ncbi.nlm.nih.gov/21762100/

https://pubmed.ncbi.nlm.nih.gov/22074422/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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