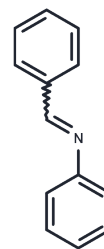


Benzylideneaniline

Chemical Properties

CAS No. :	538-51-2
Formula:	C ₁₃ H ₁₁ N
Molecular Weight:	181.23
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	Benzylideneaniline (N-Benzylideneaniline) is a potent inhibitor of xyloglucan- α,β -dioxxygenase, a key enzyme in the oxidative cleavage of the central double bond of xyloglucan.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 3.6 mg/mL (19.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5179 mL	27.5893 mL	55.1785 mL
5 mM	1.1036 mL	5.5179 mL	11.0357 mL
10 mM	0.5518 mL	2.7589 mL	5.5179 mL
50 mM	0.1104 mL	0.5518 mL	1.1036 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

- Cai S, et al. Synthesis, structure-activity relationships and preliminary mechanism study of N-benzylideneaniline derivatives as potential TLR2 inhibitors. *Bioorg Med Chem.* 2018 May 1;26(8):2041-2050.
- Han SY, et al. N-benzylideneaniline and N-benzylaniline are potent inhibitors of lignostilbene- α,β -dioxxygenase, a key enzyme in oxidative cleavage of the central double bond of lignostilbene. *J Enzyme Inhib Med Chem.* 2003 Jun;18(3):279-83.

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