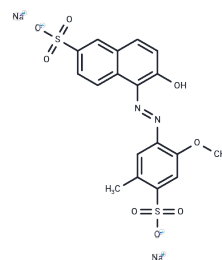


Allura Red AC

Chemical Properties

CAS No. :	25956-17-6
Formula:	C ₁₈ H ₁₄ N ₂ Na ₂ O ₈ S ₂
Molecular Weight:	496.42
Appearance:	Solid
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Allura Red AC (CI 16035) is a very important food azo dye used in the food, pharmaceutical, paper, cosmetic and textile industries. Allura Red AC promotes susceptibility to experimental colitis via mouse intestinal serotonin.
Targets(IC50)	Estrogen/progestogen Receptor, Androgen Receptor, 5-HT Receptor, IFNAR, Interleukin, ROS, TNF

Solubility Information

Solubility	DMSO: 6.88 mg/mL (13.86 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	2.0144 mL	10.0721 mL	20.1442 mL
5 mM	0.4029 mL	2.0144 mL	4.0288 mL
10 mM	0.2014 mL	1.0072 mL	2.0144 mL
50 mM	0.0403 mL	0.2014 mL	0.4029 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.

Reference

Thiam A, et al. Decolorization and mineralization of Allura Red AC aqueous solutions by electrochemical advanced oxidation processes. J Hazard Mater. 2015 Jun 15;290:34-42.

Wu D, et al. Characterisation of interaction between food colourant allura red AC and human serum albumin: multispectroscopic analyses and docking simulations. Food Chem. 2015;170:423-429.

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