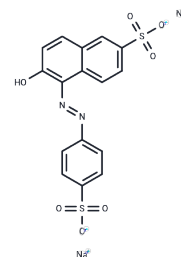


Sunset Yellow FCF

Chemical Properties

CAS No. :	2783-94-0
Formula:	C ₁₆ H ₁₀ N ₂ Na ₂ O ₇ S ₂
Molecular Weight:	452.36
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	Sunset Yellow FCF (Sunset yellow) is an orange azo dye with pH-dependent absorbance. Sunset Yellow FCF is used in food, cosmetics and pharmaceuticals. It is used as a colorant food additive in many food products. They may be cytotoxic and genotoxic, so care must be taken when using these materials as food additives.
Targets(IC50)	Androgen Receptor
In vitro	Sunset Yellow FCF (250 µg/ml) reduces LPS-induced and allogeneic mixed lymphocyte reaction-induced proliferation of isolated mouse splenocytes.[3]
In vivo	Sunset yellow FCF (0.325 mg/kg; mice) induces chromosomal aberrations in somatic and germ cells and morphological abnormalities in sperm in mice, but it is not genotoxic in a micronucleus gut assay in mice when administered at doses up to 2,000 mg/kg.[4]

Solubility Information

Solubility	H ₂ O: 90 mg/mL (198.96 mM), Sonication is recommended. DMSO: 50 mg/mL (110.53 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	2.2106 mL	11.0531 mL	22.1063 mL
5 mM	0.4421 mL	2.2106 mL	4.4213 mL
10 mM	0.2211 mL	1.1053 mL	2.2106 mL
50 mM	0.0442 mL	0.2211 mL	0.4421 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

Kus E, et al. Genotoxic and cytotoxic effects of Sunset Yellow and Brilliant Blue, colorant food additives, on human blood lymphocytes. *Pak J Pharm Sci.* 2015 Jan;28(1):227-30.

Ghoneim M M, et al. Electro-Fenton oxidation of Sunset Yellow FCF azo-dye in aqueous solutions. *Desalination*, 2011, 274(1-3): 22-30.

Yadav A, et al. Sunset yellow FCF, a permitted food dye, alters functional responses of splenocytes at non-cytotoxic dose. *Toxicol Lett.* 2013;217(3):197-204.

Sayed HM, et al. The modifying effect of selenium and vitamins A, C, and E on the genotoxicity induced by sunset yellow in male mice. *Mutat Res.* 2012;744(2):145-153.

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