

## Sunset yellow

**Chemical Properties**

CAS No.:	2783-94-0
Formula:	C <sub>16</sub> H <sub>10</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>7</sub> S <sub>2</sub>
Molecular Weight:	452.37
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Sunset yellow FCF and Brilliant Blue FCF are used as colorant food additives in many food products, they can have cytotoxic and genotoxic potential, it care must be taken when using these materials as a food additive.
Targets(IC <sub>50</sub> )	Androgen Receptor: None
In vitro	Genotoxic and cytotoxic activities of the food additives were evaluated in lymphocyte cell cultures using mitotic index, replication index and micronucleus assay. Mitotic index frequencies and replication index values were decreased and micronucleus frequency was increased with increasing concentrations of Sunset yellow and Brilliant Blue. The changes in mitotic index and micronucleus are statistically significant (p<0.05)[1]

**Solubility Information**

Solubility	DMSO: 90 mg/mL (198.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.211 mL	11.053 mL	22.106 mL
5 mM	0.442 mL	2.211 mL	4.421 mL
10 mM	0.221 mL	1.105 mL	2.211 mL
50 mM	0.044 mL	0.221 mL	0.442 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481