Carmoisine

®

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Cat. No.:	HY-128448	
CAS No.:	3567-69-9	ON ON A
Molecular Formula:	C ₂₀ H ₁₂ N ₂ Na ₂ O ₇ S ₂	
Molecular Weight:	502.43	N:N C
Target:	Fluorescent Dye	
Pathway:	Others	0=S=0
Storage:	4°C, sealed storage, away from moisture and light	UNa
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture	
	and light)	

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9903 mL	9.9516 mL	19.9033 mL
	5 mM	0.3981 mL	1.9903 mL	3.9807 mL
	10 mM	0.1990 mL	0.9952 mL	1.9903 mL

Biologication						
Description	Carmoisine (Azorubine) is an azo dye that can be used as a food additive ^{[1][2]} .					
In Vitro	Carmoisine augments the in vitro synthesis of leukotriene B4 (LTB4) and F2-isoprostanes from blood neutrophils. Carmoisine increases the formation of F2-isoprostanes from blood neutrophils at all tested concentrations ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
In Vivo	Carmoisine (49.3-493 mg/kg; oral administration; for 42 days; male Wistar rats) treatment increases MAPK8 expression at remarkably low and high concentrations, the expression of NFκB and GADD45α does not change ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
	Animal Model:	Male Wistar rats (120-300 g) ^[1]				
	Dosage:	49.3 mg/kg, 493 mg/kg				
	Administration:	Oral administration; for 42 days				

Result:

REFERENCES

[1]. B Raposa, et al. Food additives: Sodium benzoate, potassium sorbate, azorubine, and tartrazine modify the expression of NFκB, GADD45α, and MAPK8 genes. Physiol Int. 2016 Sep;103(3):334-343.

[2]. Latasha Leo, et al. Occurrence of azo food dyes and their effects on cellular inflammatory responses. Nutrition. 2018 Feb;46:36-40.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA