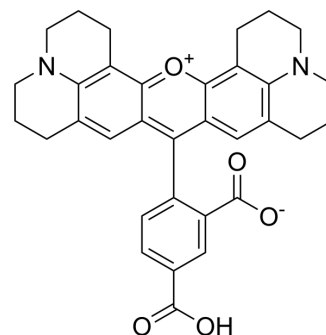


5-ROX

Cat. No.:	HY-D0784
CAS No.:	216699-35-3
Molecular Formula:	C ₃₃ H ₃₀ N ₂ O ₅
Molecular Weight:	534.6
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (233.82 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.8706 mL	9.3528 mL	18.7056 mL	
5 mM	0.3741 mL	1.8706 mL	3.7411 mL	
10 mM	0.1871 mL	0.9353 mL	1.8706 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5-ROX (5-Carboxy-X-rhodamine), a rhodamine dye, exhibits strong fluorescence property in aqueous buffer with the λ_{exit} of 580 nm ($\epsilon=3.6 \times 10^4 \text{ M}^{-1} \text{ cm}^{-1}$), and λ_{emit} of 604 nm ($=0.94$)^[1].

In Vitro

Rhodamine dyes are important because of their favorable photochemical and photophysical properties. They have long wavelength absorption maxima, high molar absorptivities, and high quantum yields^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Uddin MJ, et al. Synthesis of 5- and 6-carboxy-X-rhodamines. Org Lett. 2008 Nov 6;10(21):4799-801.

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

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