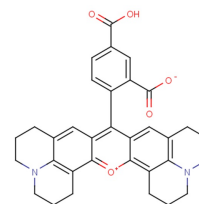


5-ROX

Chemical Properties

CAS No.:	216699-35-3
Formula:	C33H30N2O5
Molecular Weight:	534.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	5-ROX (5-Carboxy-X-rhodamine), a rhodamine dye, exhibits strong fluorescence property in aqueous buffer with the λ_{exc} of 580 nm ($\epsilon=3.6 \times 10^4 / (\text{M} \cdot \text{cm})$), and λ_{emit} of 604 nm ($\phi=0.94$).
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 125 mg/mL (233.82 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.871 mL	9.353 mL	18.706 mL
5 mM	0.374 mL	1.871 mL	3.741 mL
10 mM	0.187 mL	0.935 mL	1.871 mL
50 mM	0.037 mL	0.187 mL	0.374 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. Uddin MJ, et al. Synthesis of 5- and 6-carboxy-X-rhodamines. Org Lett. 2008 Nov 6;10(21):4799-801.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481