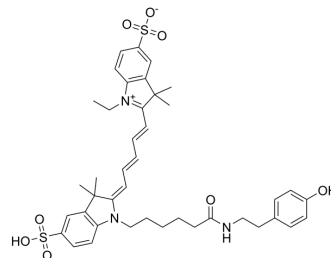


Cyanine 5 Tyramide

Cat. No.:	HY-136247
CAS No.:	1431148-26-3
Molecular Formula:	C ₄₁ H ₄₉ N ₃ O ₈ S ₂
Molecular Weight:	775.97
Target:	DNA Stain
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (80.54 mM; Need ultrasonic and warming)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.2887 mL	6.4435 mL	12.8871 mL
				5 mM	0.2577 mL	1.2887 mL	2.5774 mL
				10 mM	0.1289 mL	0.6444 mL	1.2887 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.68 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.68 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Cyanine 5 Tyramide (Tyramide-Cy5), a red fluorescent dye, is utilized as reporter fluorescent substrate for horseradish peroxidase (HRP)-catalyzed deposition that is signal amplification technique in immunoassay and in situ hybridization of nucleic acids ^[1] .
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REFERENCES

[1]. Huang X, et, al. Quantum dot-based FRET for sensitive determination of hydrogen peroxide and glucose using tyramide reaction. Talanta. 2013 Mar 15;106:79-84.

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

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