Cyanine 3 Tyramide

Cat. No.: HY-136248

CAS No.: 174961-75-2

Molecular Formula: $C_{39}H_{47}N_3O_8S_2$

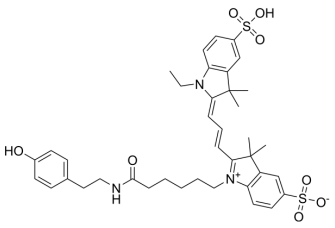
Molecular Weight: 749.94

Target: DNA Stain; Fluorescent Dye

Pathway: Cell Cycle/DNA Damage; Others

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (27.78 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3334 mL	6.6672 mL	13.3344 mL
	5 mM	0.2667 mL	1.3334 mL	2.6669 mL
	10 mM	0.1333 mL	0.6667 mL	1.3334 mL

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

BIOLOGICAL ACTIVITY

Description

Cyanine 3 Tyramide (Tyramide-Cy3), an orange 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][2].

REFERENCES

[1]. Chao J, et, al. Immunofluorescence signal amplification by the enzyme-catalyzed deposition of a fluorescent reporter substrate (CARD). Cytometry. 1996 Jan 1;23(1):48-53.

[2]. Schmidt BF, et, al. Signal amplification in the detection of single-copy DNA and RNA by enzyme-catalyzed deposition (CARD) of the novel fluorescent reporter substrate Cy3.29-tyramide. J Histochem Cytochem. 1997 Mar;45(3):365-73.

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

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