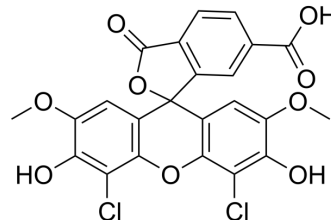


JOE

Cat. No.:	HY-D1090	
CAS No.:	82855-40-1	
Molecular Formula:	C ₂₃ H ₁₄ Cl ₂ O ₉	
Molecular Weight:	505.26	
Target:	DNA Stain	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (98.96 mM; Need ultrasonic)
 H₂O : 5 mg/mL (9.90 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9792 mL	9.8959 mL	19.7918 mL
	5 mM	0.3958 mL	1.9792 mL	3.9584 mL
	10 mM	0.1979 mL	0.9896 mL	1.9792 mL

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

BIOLOGICAL ACTIVITY

Description

JOE is a fluorescent dye and can be used as a fluorescent label in DNA sequencing, PCR, and LCR amplifications. JOE possesses an absorbance of 525 nm and an emission of 550 nm^[1].

REFERENCES

[1]. Tsybulsky DA, et al. 4',5'-Dichloro-2',7'-dimethoxy-5(6)-carboxyfluorescein (JOE): synthesis and spectral properties of oligonucleotide conjugates. J Org Chem. 2012 Jan 20;77(2):977-84.

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

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