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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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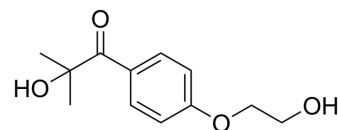
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I2959

Cat. No.:	HY-W013508
CAS No.:	106797-53-9
Molecular Formula:	C ₁₂ H ₁₆ O ₄
Molecular Weight:	224.26
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (445.92 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.4592 mL	22.2959 mL	44.5919 mL
	5 mM		0.8918 mL	4.4592 mL	8.9184 mL
	10 mM		0.4459 mL	2.2296 mL	4.4592 mL

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

BIOLOGICAL ACTIVITY

Description

I2959 is widely used as a photoinitiator for photochemical cross-linking of hydrogels, and the combination of I2959 and CMA hydrogel has been used as a bio-ink for biological 3D printing applications. In addition, I2959 has a high free radical generation efficiency and is cytotoxic to rapidly dividing cell lines^[1].

In Vitro

Method for encapsulation of Saos-2 cells in photochemically cross-linked CMA hydrogels^[1]:

1. Human osteosarcoma cell line (Saos-2 cells) are propagated in RPMI medium containing 15% FBS, 1% L-glutamine, and 1% penicillin/streptomycin.
 2. Cells are suspended in neutralized CMA solution (containing I2959 at 0.02% or 0.1% concentration).
 3. 45 µL of cell suspension is added to each well of a 96-well plate and incubated at 37°C for 30 min for gelation (5000 cells/gel).
 4. Gels are exposed to UV light (365 nm) for two different times (1 min or 10 min) for photocross-linking. Hydrogels not exposed to UV light were used as controls for cell studies.
 5. Culture the cell-encapsulated hydrogels in α-MEM medium containing 50 µg/mL ascorbic acid, 10 mM β-glycerophosphate, 10% FBS, and 1% penicillin/streptomycin for up to 14 days.
- MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Thuy-Uyen Nguyen, et al. Photochemically crosslinked cell-laden methacrylated collagen hydrogels with high cell viability and functionality. J Biomed Mater Res A. 2019 Jul;107(7):1541-1550.

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

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