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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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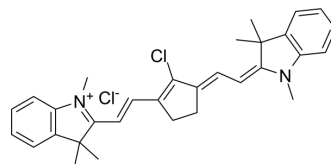
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IR-797 chloride

Cat. No.:	HY-D1504
CAS No.:	110992-55-7
Molecular Formula:	C ₃₁ H ₃₄ Cl ₂ N ₂
Molecular Weight:	505.52
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (19.78 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9782 mL	9.8908 mL	19.7816 mL
5 mM	0.3956 mL	1.9782 mL	3.9563 mL
10 mM	0.1978 mL	0.9891 mL	1.9782 mL

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

BIOLOGICAL ACTIVITY

Description

IR-797 chloride is a near-infrared (NIR) dye. IR 797 has absorption maxima near 700 nm. IR-797 shows some aggregation-induced-emission (AIE) properties. IR-797 shows cytotoxic^{[1][2]}.

In Vitro

The hydrophobic IR-797 molecules are self-assembled into nanoparticles, which are further modified with an amphiphilic polymer (C18PMH-PEG5000) on the surface^[1].

IR-797 can be used to make PEG-IR-797 nanoparticles and work as a chemotherapeutic drug which induces apoptosis of cancer cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Xiao YF, et al. The Nanoassembly of an Intrinsically Cytotoxic Near-Infrared Dye for Multifunctionally Synergistic Theranostics. *Small*. 2019 Sep;15(38):e1903121.
- [2]. Fan Cao, et al. Wavelength-Dependent Tip-Enhanced Laser Ablation of Organic Dyes. *The Journal of Physical Chemistry C*. 2020, 124, 3, 1918–1922

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

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