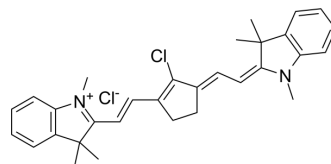


## IR-797 chloride

<b>Cat. No.:</b>	HY-D1504
<b>CAS No.:</b>	110992-55-7
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>34</sub> Cl <sub>2</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	505.52
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	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<sup>[1][2]</sup>.

#### 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<sup>[1]</sup>.

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

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

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

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