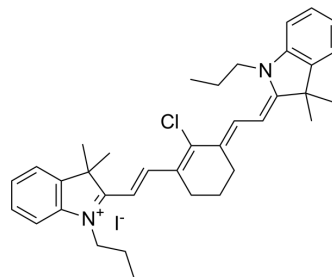


IR-780

Cat. No.:	HY-D1063
CAS No.:	207399-07-3
Molecular Formula:	C ₃₆ H ₄₄ ClIN ₂
Molecular Weight:	667.11
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°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 : 12.5 mg/mL (18.74 mM); ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4990 mL	7.4950 mL	14.9900 mL
5 mM	0.2998 mL	1.4990 mL	2.9980 mL
10 mM	0.1499 mL	0.7495 mL	1.4990 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 1.25 mg/mL (1.87 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

IR780 is a prototypic NIR heptamethine cyanine agent, with a high molar extinction coefficient. The maximum excitation wavelength of IR780 was 777-780 nm, and the maximum emission wavelength was 798-823 nm. IR780 can be used in cancer PTT/PDT and imaging^[1].

REFERENCES

[1]. Alves C G, et al. IR780 based nanomaterials for cancer imaging and photothermal, photodynamic and combinatorial therapies [J]. International journal of pharmaceutics, 2018, 542(1-2): 164-175.

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

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