



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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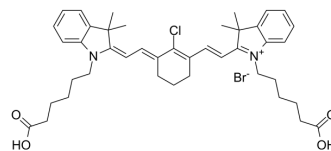
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MHI-148

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-D1711 | | |
| CAS No.: | 172971-76-5 | | |
| Molecular Formula: | C ₄₂ H ₅₂ BrClN ₂ O ₄ | | |
| Molecular Weight: | 764.23 | | |
| Target: | Fluorescent Dye | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (27.26 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|-----------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 1.3085 mL | 6.5425 mL | 13.0851 mL |
| 5 mM | 0.2617 mL | 1.3085 mL | 2.6170 mL |
| 10 mM | 0.1309 mL | 0.6543 mL | 1.3085 mL |

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (1.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (1.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MHI-148 is a near-infrared heptamethine cyanine dye with tumor-targeting properties for cancer detection, diagnosis and research. MHI-148 is immediately taken up and accumulated by lysosomes and mitochondria of tumor cells, but not in lysosomes and mitochondria of normal cells^[1].

In Vitro

MHI-148 (10 μM, 1 h) is significantly more absorbed in HT-29 colon carcinoma cells than in normal NIH3T3 fibroblasts and has tumor imaging and targeting properties^[1].
MHI-148 (0-1.5 μM, 3 days) causes only negligible toxicity in HT-29 and NIH3T3 cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Athira Raveendran, et al. Heptamethine Cyanine Dye MHI-148-Mediated Drug Delivery System to Enhance the Anticancer Efficiency of Paclitaxel. Int J Nanomedicine. 2021 Oct 21;16:7169-7180.

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

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