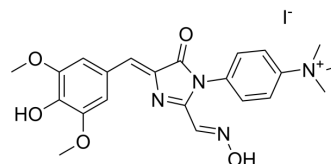


## DMHBO+

<b>Cat. No.:</b>	HY-161159
<b>CAS No.:</b>	2322286-81-5
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>25</sub> N <sub>4</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	552.36
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 28 mg/mL (50.69 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8104 mL	9.0521 mL	18.1041 mL
5 mM	0.3621 mL	1.8104 mL	3.6208 mL
10 mM	0.1810 mL	0.9052 mL	1.8104 mL

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

## BIOLOGICAL ACTIVITY

### Description

DMHBO+ is a cationic chromophore that binds to the Chili aptamer with a  $K_d$  of 12 nM. The Chili-DMHBO+ complex is an ideal fluorescence donor for FRET to the rhodamine dye Atto 590, suitable for imaging RNA in cells. Ex/Em=456/592 nm<sup>[1]</sup>.

## REFERENCES

[1]. Christian Steinmetzger, et al. A Multicolor Large Stokes Shift Fluorogen-Activating RNA Aptamer with Cationic Chromophores. Chemistry. 2019 Feb 6;25(8):1931-1935.

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

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