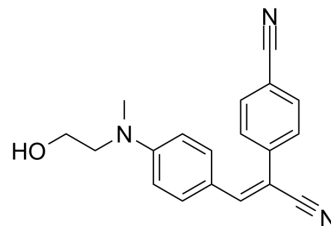


## HBC

<b>Cat. No.:</b>	HY-D1373
<b>CAS No.:</b>	156840-13-0
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>17</sub> N <sub>3</sub> O
<b>Molecular Weight:</b>	303.36
<b>Target:</b>	DNA Stain
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (412.05 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2964 mL	16.4821 mL	32.9641 mL
	5 mM	0.6593 mL	3.2964 mL	6.5928 mL
	10 mM	0.3296 mL	1.6482 mL	3.2964 mL

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

### BIOLOGICAL ACTIVITY

#### Description

HBC is a green fluorescent protein (GFP) fluorophore-like synthetic dye, with a structurally rigid electron acceptor and a strong electron donor. HBC is used to detect RNA localization<sup>[1]</sup>.

#### In Vitro

HBC is nonfluorescent in solution, but strongly fluoresces upon constraining intramolecular motion<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Chen X, et al. Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. Nat Biotechnol. 2019;37(11):1287-1293.

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

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