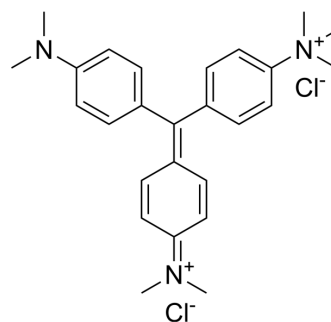


## Basic Blue 20

<b>Cat. No.:</b>	HY-W110781
<b>CAS No.:</b>	82-94-0
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>33</sub> Cl <sub>2</sub> N <sub>3</sub>
<b>Molecular Weight:</b>	458.47
<b>Target:</b>	DNA Stain
<b>Pathway:</b>	Cell Cycle/DNA Damage
<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 : 125 mg/mL (272.65 mM; ultrasonic and warming and heat to 60°C)  
H<sub>2</sub>O : 4.72 mg/mL (10.30 mM; ultrasonic and warming and adjust pH to 9 with HCl and heat to 80°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1812 mL	10.9058 mL	21.8117 mL
	5 mM	0.4362 mL	2.1812 mL	4.3623 mL
	10 mM	0.2181 mL	1.0906 mL	2.1812 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: ≥ 2.08 mg/mL (4.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Basic Blue 20 is a very convenient red-emitting DNA stains. Basic Blue 20 has relatively narrow excitation and emission spectra, with peaks at 633 and 677 nm, respectively. Basic Blue 20 also has a very high resistance to photobleaching<sup>[1]</sup>.

### REFERENCES

- [1]. Prieto D, et al. A fast, low cost, and highly efficient fluorescent DNA labeling method using methyl green. *Histochem Cell Biol.* 2014;142(3):335-345.

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

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