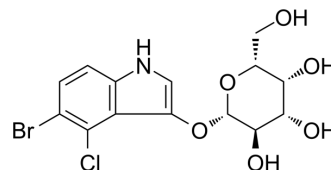


## X-GAL

<b>Cat. No.:</b>	HY-15934
<b>CAS No.:</b>	7240-90-6
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> BrClNO <sub>6</sub>
<b>Molecular Weight:</b>	408.63
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<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 : 100 mg/mL (244.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4472 mL	12.2360 mL	24.4720 mL
	5 mM	0.4894 mL	2.4472 mL	4.8944 mL
	10 mM	0.2447 mL	1.2236 mL	2.4472 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 (5.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.09 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

X-GAL is a widely used chromogenic β-galactosidase substrate. β-galactosidase cleaves X-gal and produce an insoluble blue compound, which is detectable.

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

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