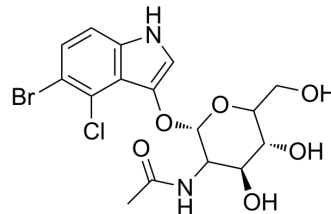


## X-GalNac

<b>Cat. No.:</b>	HY-W116594
<b>CAS No.:</b>	129572-48-1
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>18</sub> BrClN <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	449.68
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (555.95 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2238 mL	11.1190 mL	22.2380 mL
	5 mM	0.4448 mL	2.2238 mL	4.4476 mL
	10 mM	0.2224 mL	1.1119 mL	2.2238 mL

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

### BIOLOGICAL ACTIVITY

#### Description

X-GalNac is a chromogenic substrate for for N-acetyl-β-galactosidase, used to determine the presence or absence of a cloned DNA insert in bacteria growing on agar plates<sup>[1]</sup>.

### REFERENCES

- [1]. Smith WS, et al. Applying neutral drift to the directed molecular evolution of a β-glucuronidase into a β-galactosidase: Two different evolutionary pathways lead to the same variant. *BMC Res Notes*. 2011 May 6;4:138.
- [2]. Semen A Leyn, et al. N-acetyl galactosamine utilization pathway and regulon in proteobacteria: genomic reconstruction and experimental characterization in *Shewanella*. *J Biol Chem*. 2012 Aug 10;287(33):28047-56.

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

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