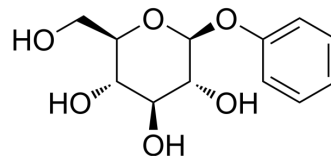


## Phenyl β-D-glucopyranoside

Cat. No.:	HY-W011849
CAS No.:	1464-44-4
Molecular Formula:	C <sub>12</sub> H <sub>16</sub> O <sub>6</sub>
Molecular Weight:	256.25
Target:	NF-κB; COX
Pathway:	NF-κB; Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (390.24 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.9024 mL	19.5122 mL	39.0244 mL
				5 mM	0.7805 mL	3.9024 mL	7.8049 mL
				10 mM	0.3902 mL	1.9512 mL	3.9024 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.76 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.76 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.76 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Phenyl β-D-glucopyranoside has anti-cancer and anti-inflammatory activities. Phenyl β-D-glucopyranoside inhibits nitric oxide (NO) production, and the expression of iNOS and COX-2. Phenyl β-D-glucopyranoside also inhibits the nuclear translocation of NF-κB <sup>[1]</sup> .
IC <sub>50</sub> & Target	COX-2

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA