## n-Butyl-β-D-fructofuranoside

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Cat. No.:	HY-N9802
CAS No.:	80971-60-4
Molecular Formula:	C <sub>10</sub> H <sub>20</sub> O <sub>6</sub>
Molecular Weight:	236.26
Target:	Apoptosis; Bcl-2 Family
Pathway:	Apoptosis
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	reparing tock Solutions	1 mM	4.2326 mL	21.1631 mL	42.3263 mL
	5 mM	0.8465 mL	4.2326 mL	8.4653 mL	
		10 mM	0.4233 mL	2.1163 mL	4.2326 mL

BIOLOGICAL ACTIV		
Description		oside could be isolated from kangaisan. n-Butyl-β-D-fructofuranoside induces apoptosis through the . n-Butyl-β-D-fructofuranoside can be used for cancer research <sup>[1]</sup> .
IC <sub>50</sub> & Target	Bax	Bcl-2
In Vitro	cells <sup>[1]</sup> . n-Butyl-β-D-fructofuran apoptosis <sup>[1]</sup> . MCE has not independer Cell Viability Assay <sup>[1]</sup>	oside (0-23.6 μg/mL; 24-78 hours) has antiproliferation activity and inhibits the viability of Bel-7402 oside (0-75 μg/mL; 0-72 hours) inhibits BEL-7402 cells by interfering with cell cycle and inducing ntly confirmed the accuracy of these methods. They are for reference only.
	Cell Line: Concentration:	Bel-7402 cells 0.47, 2.95, 5.90, 11.8, 17.7 and 23.6 μg/mL
	Incubation Time:	24, 48 and 72 hours

## Product Data Sheet

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Result:	Inhibited the proliferation of Bel-7402 cells at both time- and dose-dependent man		
Cell Cycle Analysis <sup>[1]</sup>			
Cell Line:	Bel-7402 cells		
Concentration:	0, 50 and 75 μg/mL		
Incubation Time:	24, 48 and 72 hours		
Result:	Induced cell cycle arrest at G0/G1 phase.		
Western Blot Analysis <sup>[1]</sup>			
Cell Line:	Bel-7402 cells		
Concentration:	23.6 μg/mL		
Incubation Time:	0, 24, 48 and 72 hours		
Result:	Decreased Bcl-2 and increased Bax and p53 levels in a time manner.		

## REFERENCES

[1]. Lu P, et, al. Antiproliferative effects of n-butyl-β-D-fructofuranoside from Kangaisan on Bel-7402 cells. Indian J Pharmacol. 2014 Jan-Feb;46(1):69-75. doi: 10.4103/0253-7613.125175.

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

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