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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# n-Butyl-β-D-fructofuranoside

**Cat. No.:** HY-N9802

**CAS No.:** 80971-60-4

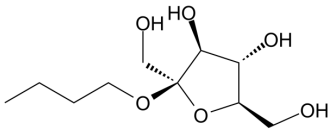
**Molecular Formula:** $C_{10}H_{20}O_6$

**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

**In Vitro**

DMSO : 100 mg/mL (423.26 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 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 |

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

## BIOLOGICAL ACTIVITY

**Description**

n-Butyl-β-D-fructofuranoside could be isolated from kangaisan. n-Butyl-β-D-fructofuranoside induces apoptosis through the mitochondrial pathway. n-Butyl-β-D-fructofuranoside can be used for cancer research[1].

| $IC_{50}$ & Target | | |
|---|---|---|
| | Bax | Bcl-2 |

**In Vitro**

n-Butyl-β-D-fructofuranoside (0-23.6 μg/mL; 24-78 hours) has antiproliferation activity and inhibits the viability of Bel-7402 cells[1].

n-Butyl-β-D-fructofuranoside (0-75 μg/mL; 0-72 hours) inhibits BEL-7402 cells by interfering with cell cycle and inducing apoptosis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

| | |
|---|---|
| Cell Line: | Bel-7402 cells |
| Concentration: | 0.47, 2.95, 5.90, 11.8, 17.7 and 23.6 μg/mL |
| Incubation Time: | 24, 48 and 72 hours |

| | |
|---|---|
| Result: | Inhibited the proliferation of Bel-7402 cells at both time- and dose-dependent manner. |

Cell Cycle Analysis[1]

| | |
|---|---|
| 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[1]

| | |
|---|---|
| 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.



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