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## Product Data Sheet

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Product Name: Beta-Zearalanol

Cat. No.: GC35504

**Chemical Properties**

Cas. No. 42422-68-4

SMILES O=C1C2=C(O)C=C(O)C=C2CCCC[C@H](O)CCC[C@H](C)O1Formula  $C_{18}H_{26}O_5$ 

M.Wt 322.4

Solubility Methanol: 10 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Beta-Zearalenol is a mycotoxin produced by *Fusarium* spp, which causes apoptosis and oxidative stress in mammalian reproductive cells[1]. Beta-Zearalenol is the derivative of zearalenone (ZEA) which can conjugate with glucuronic acid[2].

β-Zearalenol (0-200 μM; 24 hours) inhibits BGC proliferation in a dose-dependent manner, with an IC<sub>50</sub> of 25 μM[1]. β-Zearalenol (0-100 μM; 72 hours) shows high toxic with an IC<sub>50</sub> of 15.2 μM in the HepG2 cells, synergistic effect of β-ZOL+ZEN or β-ZOL+α-ZOL with IC<sub>50</sub> values of 19.8 μM, 16.8 μM, respectively[2]. β-Zearalenol (0-10 μM; 72 hours) has the highest inhibition effect on the all three investigated cytokines: IL-8, IL-1β and TNF-α by comparison with ZEA or α-Zearalenol[2]. Cell Viability Assay[2] Cell Line: HepG2 cells

[1]. Yang F, et al. Melatonin alleviates β-zearalenol and HT-2 toxin-induced apoptosis and oxidative stress in bovine ovarian granulosa cells. *Environ Toxicol Pharmacol*. 2019 May;68:52-60. [2]. Marin DE, et al. Cytotoxic and inflammatory effects of individual and combined exposure of HepG2 cells to zearalenone and its metabolites. *Naunyn Schmiedebergs Arch Pharmacol*. 2019 Aug;392(8):937-947.

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

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