

Product Data Sheet

Product Name: Bisphenol F bis(2-chloro-1-propanol) ether

Cat. No.: GC81356

Chemical Properties

Cas. No. 374772-79-9

Formula $C_{19}H_{22}Cl_2O_4$

M.Wt 385.28

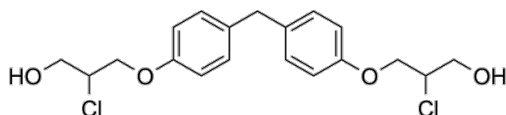
Solubility

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

Bisphenol F bis(2-chloro-1-propanol) ether (BFDGE·2HCl) is an androgen receptor antagonist with a human IC_{50} of 18 μM . Bisphenol F bis(2-chloro-1-propanol) ether binds to the androgen receptor. Bisphenol F bis(2-chloro-1-propanol) ether (BFDGE·2HCl) can be used for research on hormonal activity [1] [2].

In Vitro, Bisphenol F bis(2-chloro-1-propanol) ether (10 pM-10 μM M; 16-24 h) exhibits no androgen agonistic activity in AR-EcoScreen CHO-K1 cells^[1]. Bisphenol F bis(2-chloro-1-propanol) ether (1 nM-100 μM ; 16-24 h) acts as a potent androgen antagonist in AR-EcoScreen CHO-K1 cells, with an

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IC₅₀ of 5.2×10^{-6} M for inhibiting DHT-induced luciferase activity, and shows no cell toxicity at active concentrations^[1]. Bisphenol F bis(2-chloro-1-propanol) ether binds to human androgen receptor with an IC₅₀ of 1.8×10^{-5} M, reducing specific testosterone binding in a concentration-dependent manner^[1]. Bisphenol F bis(2-chloro-1-propanol) ether has negligible binding affinity for human estrogen receptor α , with less than 40% inhibition of specific 17β -estradiol binding at concentrations up to 1.9×10^{-4} M^[1]. Bisphenol F bis(2-chloro-1-propanol) ether (100 nM-100 μ M; 24 h) exhibits no estrogenic agonistic activity in MVLN cells when tested at concentrations^[1]. Bisphenol F bis(2-chloro-1-propanol) ether (100 nM-100 μ M) does not induce proliferation of estrogen-sensitive MCF-7 cells^[1].

References:

- [1]. Satoh K, et al. Study on anti-androgenic effects of bisphenol a diglycidyl ether (BADGE), bisphenol F diglycidyl ether (BFDGE) and their derivatives using cells stably transfected with human androgen receptor, AR-EcoScreen. Food Chem Toxicol. 2004;42(6):983-993.
- [2]. Zhang HL, et al. Urinary exposure level of emerging chemicals in Chinese pregnant women and their associations with oxidative stress. Emerg. Contam. 2015 Jun;11(2):100502.

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