

エチレングリコールモノエチルエーテル (CAS no. 110-80-5)

文献信頼性評価結果

示唆された作用							
エストロゲン	抗エストロゲン	アンドロゲン	抗アンドロゲン	甲状腺ホルモン	抗甲状腺ホルモン	脱皮ホルモン	その他*
—	—	—	—	○	○	—	○

○：既存知見から示唆された作用

—：既存知見から示唆されなかった作用

*その他：視床下部—下垂体—生殖腺軸への作用等

エチレングリコールモノエチルエーテルの内分泌かく乱作用に関連する報告として、動物試験の報告において、視床下部—下垂体—生殖腺軸への作用、視床下部—下垂体—甲状腺軸への作用、視床下部—下垂体軸への作用を示すことが示唆された。

(1) 生殖影響

- Adedara と Farombi(2013)によって、エチレングリコールモノエチルエーテル 200mg/kg/day を 14 日間経口投与した成熟雄 Wistar ラットへの影響が検討されている。その結果として、血漿中テストステロン濃度、血漿中プロラクチン濃度、血漿中黄体形成ホルモン濃度、血漿中トリヨードサイロニン濃度、血漿中サイロキシン濃度、精巣中アンドロゲン蛋白質相対発現量、精巣中 *Star* 蛋白質相対発現量、精巣中 3β -ヒドロキシステロイドデヒドロゲナーゼ比活性、精巣中 17β -ヒドロキシステロイドデヒドロゲナーゼ比活性の低値、血漿中卵胞刺激ホルモン濃度、精巣中シアル酸濃度(過酸化脂質濃度指標)の高値が認められた。

想定される作用メカニズム：視床下部—下垂体—生殖腺軸への作用、視床下部—下垂体—甲状腺軸への作用、視床下部—下垂体(プロラクチン)軸への作用

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