

ホルムアルデヒド (CAS no. 50-00-0)

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*
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○：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

ホルムアルデヒドの内分泌かく乱作用に関連する報告では、内分泌かく乱作用に関する試験対象物質として選定する根拠が得られなかった。

参考文献

Özen OA, Akpolat N, Songur A, Kus I, Zararsiz I, Özacmak VH and Sarsilmaz M (2005) Effect of formaldehyde inhalation on Hsp70 in seminiferous tubules of rat testes: an immunohistochemical study. *Toxicology and Industrial Health*, 21 (10), 249-254.

Chowdhury AR, Gautam AK, Patel KG and Trivedi HS (1992) Steroidogenic inhibition in testicular tissue of formaldehyde exposed rats. *Indian Journal of Physiology and Pharmacology*, 36 (3), 162-168.

Majumder PK and Kumar VL (1995) Inhibitory effects of formaldehyde on the reproductive system of male rats. *Indian Journal of Physiology and Pharmacology*, 39 (1), 80-82.

Patel KG, Bhatt HV and Choudhury AR (2003) Alteration in thyroid after formaldehyde (HCHO) treatment in rats. *Industrial Health*, 41 (3), 295-297.

Sari DK, Kuwahara S, Tsukamoto Y, Hori H, Kunugita N, Arashidani K, Fujimaki H and Sasaki F (2004) Effect of prolonged exposure to low concentrations of formaldehyde on the corticotropin releasing hormone neurons in the hypothalamus and adrenocorticotrophic hormone cells in the pituitary gland in female mice. *Brain Research*, 1013 (1), 107-116.

Sari DK, Kuwahara S, Furuya M, Tsukamoto Y, Hori H, Kunugita N, Arashidani K, Fujimaki H and Sasaki F (2005) Hypothalamo-pituitary-adrenal gland axis in mice inhaling toluene prior to low-level long-term exposure to formaldehyde. *Journal of Veterinary Medical Science*, 67 (3), 303-309.

Sorg BA, Bailie TM, Tschirgi ML, Li N and Wu WR (2001) Exposure to repeated low-level formaldehyde in rats increases basal corticosterone levels and enhances the corticosterone response to subsequent

formaldehyde. Brain Research, 898 (2), 314-320.

Taskinen HK, Kyyronen P, Sallmen M, Virtanen SV, Liukkonen TA, Huida O, Lindbohm ML and Anttila A (1999) Reduced fertility among female wood workers exposed to formaldehyde. American Journal of Industrial Medicine, 36 (1), 206-212.

(平成 25 年度第 1 回化学物質の内分泌かく乱作用に関する検討会 資料 2-2 より抜粋)