Betamethasone hydrochloride

Cat. No.: HY-13570A
CAS No.: 956901-32-9
Molecular Formula: C₂₂H₃₀ClFO₅
Molecular Weight: 428.92
Target: Glucocorticoid Receptor
Pathway: GPCR/G Protein
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description

Betamethasone (hydrochloride) is a glucocorticoid steroid with anti-inflammatory and immunosuppressive properties. Target: Glucocorticoid Receptor
Betamethasone (hydrochloride) is the hydrochloride of betamethasone, which is a potent glucocorticoid steroid with anti-inflammatory and immunosuppressive properties. Unlike other drugs with these effects, betamethasone does not cause water retention. The median (range) IC50 value for betamethasone butyrate propionate evaluated in the streptococcal pyrogenic enterotoxin A-stimulated peripheral-blood mononuclear cells was 291.6 (0.001-1171.5) ng/ml, which was significantly higher than the value 0.072 (0.01-222.5) ng/ml found in concanavalin A-stimulated peripheral-blood mononuclear cells (P=0.0245) [1]. Children exposed prenatally to betamethasone (n = 121) did not differ in systolic or diastolic blood pressure from children exposed to placebo (n = 102) (mean difference: systolic: -1.6 mm Hg; 95% confidence interval: -4.1 to 0.8 mm Hg; diastolic: -0.3 mm Hg; 95% confidence interval: -2.5 to 1.8 mm Hg) [2]. Intra-articular corticosteroid injection of 6 mg of betamethasone acetate/betamethasone sodium phosphate at the knee joint was not significantly associated with SAI at the time points tested [3].

REFERENCES


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

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