Betamethasone hydrochloride

Cat. No.: HY-13570A
CAS No.: 956901-32-9
Molecular Formula: C$_{22}$H$_{30}$ClFO$_5$
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) IC$_{50}$ 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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