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Lieferung & Zahlungsart

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Zuschläge

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Dexamethasone (GMP)

Cat. No.: HY-14648G

CAS No.: 50-02-2

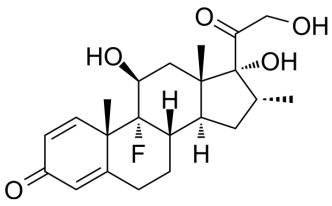
Molecular Formula: $C_{22}H_{29}FO_5$

Molecular Weight: 392.46

Target: Glucocorticoid Receptor; ADC Cytotoxin

Pathway: Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Antibody-drug Conjugate/ADC Related

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dexamethasone (Hexadecadrol) (GMP) is Dexamethasone (HY-14648) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. Dexamethasone is an agonist of glucocorticoid receptor[1][2][3][4].
In Vitro	Dexamethasone (GMP) (100 nM; 10 d) increases myotubes formation and cytoplasmic lipid droplets accumulation of RCJ 3.1 cells[1]. Dexamethasone (GMP) (10 nM-1 μM; 0-6 d) induces osteogenesis of chick periosteum cells with an optimal concentration of 100 nM[2]. Dexamethasone (GMP) (10 μM) induces osteoblastic differentiation[3]. Dexamethasone (GMP) (10 nM) stimulates differentiation of odontoblast-like cells[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell. 2023 Jun 22;186(13):2823-2838.e20.
- Nat Genet. 2024 Apr;56(4):663-674.
- Bioact Mater. 2024 May 6:37:549-562.
- ACS Nano. 2023 Oct 27.
- Chem Eng J. 2023 Aug 6, 145212.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Grigoriadis AE, et al. Differentiation of muscle, fat, cartilage, and bone from progenitor cells present in a bone-derived clonal cell population: effect of dexamethasone. J Cell Biol. 1988 Jun;106(6):2139-51.

[2]. Tenenbaum HC, Heersche JN. Dexamethasone stimulates osteogenesis in chick periosteum in vitro. Endocrinology. 1985 Nov;117(5):2211-7.

[3]. Rickard DJ, et al. Induction of rapid osteoblast differentiation in rat bone marrow stromal cell cultures by dexamethasone and BMP-2. Dev Biol. 1994 Jan;161(1):218-28.

[4]. Alliot-Licht B, et al. Dexamethasone stimulates differentiation of odontoblast-like cells in human dental pulp cultures. Cell Tissue Res. 2005 Sep;321(3):391-400.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA