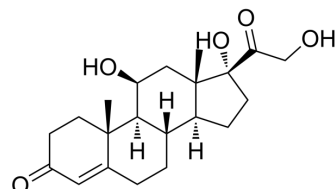


Hydrocortisone (Standard)

| | |
|---------------------------|--|
| Cat. No.: | HY-N0583R |
| CAS No.: | 50-23-7 |
| Molecular Formula: | C ₂₁ H ₃₀ O ₅ |
| Molecular Weight: | 362.46 |
| Target: | Glucocorticoid Receptor; Endogenous Metabolite |
| Pathway: | Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 31 mg/mL (85.53 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent | | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | Mass | | | |
| | 1 mM | | 2.7589 mL | 13.7946 mL | 27.5893 mL |
| | 5 mM | | 0.5518 mL | 2.7589 mL | 5.5179 mL |
| | 10 mM | | 0.2759 mL | 1.3795 mL | 2.7589 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Hydrocortisone (Standard) is the analytical standard of Hydrocortisone. This product is intended for research and analytical applications. Hydrocortisone (Cortisol) is a steroid hormone or glucocorticoid secreted by the adrenal cortex^[1].

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Nature. 2021 Jan;589(7843):620-626.
- Cancer Commun (Lond). 2021 Jul;41(7):576-595.
- Nat Chem Biol. 2022 Aug 18.

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- Sci Adv. 2023 Oct 6;9(40):eadi6586.
 - J Pharm Anal. 2024 Jan 4.

See more customer validations on www.MedChemExpress.com

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

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