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## DATASHEET

Corticosterone

### Product overview

<b>Name</b>	Corticosterone
<b>Cat No</b>	HB2808
<b>Biological action</b>	Agonist
<b>Purity</b>	>98%
<b>Description</b>	Endogenous glucocorticoid. MR and GR agonist.

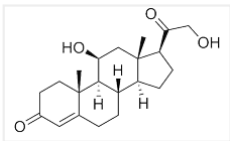
### Biological Data

<b>Biological description</b>	Endogenous glucocorticoid. Acts as a mineralcorticoid (MR) and glucocorticoid receptor (GR) agonist. Involved in a wide range of biological processes and shows a variety of effects.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100 mM) and in ethanol (10 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(11 $\beta$ )-11,21-Dihydroxypregn-4-ene-3,20-dione
<b>Molecular Weight</b>	346.46
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>30</sub> O <sub>4</sub>
<b>CAS Number</b>	50-22-6
<b>PubChem identifier</b>	5753
<b>SMILES</b>	<chem>C[C@]12CCC(=O)C=C1CC[C@@H]3[C@@H]2[C@H](C[C@]4([C@H]3CC[C@@H]4C(=O)CO)C)O</chem>
<b>InChi</b>	InChI=1S/C21H30O4/c1-20-8-7-13(23)9-12(20)3-4-14-15-5-6-16(18(25)11-22)21(15,2)10-17(24)19(14)20/h9,14-17,19,22,24H,3-8,10-11H2,1-2H3/t14-,15-,16+,17-,19+,20-,21-/m0/s1
<b>InChiKey</b>	OMFXVFTZEKFJBZ-HJTSIMOOSA-N
<b>MDL number</b>	MFCD00037715
<b>Appearance</b>	White solid

### References

**Hippocampal corticosterone impairs memory consolidation during sleep but improves consolidation in the wake state.**

Kelemen E *et al* (2014) *Hippocampus* 24(5)

**PubMedID** [24596244](https://pubmed.ncbi.nlm.nih.gov/24596244/)

**Corticosterone rapidly increases thorns of CA3 neurons via synaptic/extranuclear glucocorticoid receptor in rat hippocampus.**

Yoshiya M *et al* (2013) Front Neural Circuits 7

**PubMedID** [24348341](#)

**Corticosterone acts in the nucleus accumbens to enhance dopamine signaling and potentiate reinstatement of cocaine seeking.**

Graf EN *et al* (2013) J Neurosci 33(29)

**PubMedID** [23864669](#)

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