Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Corticosterone: HBC complex (water soluble)

Product overview

Name	Corticosterone: HBC complex (water soluble)
Cat No	HB18515
Alternative names	CORT
Biological action	Agonist
Purity	>98%
Description	Endogenous gluococorticoid. MR and GR agonist. Water soluble cyclodextrin complex.

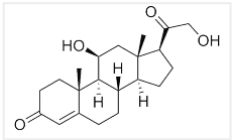
Biological Data

Biological description	Endogenous gluococorticoid. Acts as a mineralcorticoid (MR) and glucocorticoid receptor (GR) agonist. Involved in a wide range of biological processes and shows a variety of effects. This is a water soluble corticosterone formulation composed of a corticosterone – 2-hydroxypropyl-β-cyclodextrin complex (65.4 mg corticosterone per gram of final product).

Solubility & Handling

Storage instructions	Room temperature
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	(11β)-11,21-Dihydroxypregn-4-ene-3,2 0-dione
Molecular Weight	346.46
Chemical structure	
Molecular Formula	$C_{21}H_{30}O_4$
CAS Number	50-22-6
PubChem identifier	5753
SMILES	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
InChi	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
InChiKey	OMFXVFTZEKFJBZ-HJTSIMOOSA-N
MDL number	MFCD00037715
Appearance	White solid
Formulation	Contains 66.7mg corticosterone per gram of final product.

References

Corticosterone pattern-dependent glucocorticoid receptor binding and transcriptional regulation within the liver.

Flynn BP et al (2021) PLoS genetics 17

PubMedID 34375333

Chronic non-social stress affects depressive behaviors but not anxiety in mice.

Yoon SH et al (2014) The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology 18

PubMedID 24976767

Genomic and non-genomic effects of glucocorticoids on aggressive behavior in male rats.

Mikics E et al (2004) Psychoneuroendocrinology 29

PubMedID 15041085