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DATASHEET

(-)-Cannabidiol

Product overview

Name	(-)-Cannabidiol
Cat No	HB2785
Alternative names	CBD
Biological action	Agonist
Purity	>98%
Description	Nonpsychoactive cannabinoid found in cannabis

Images

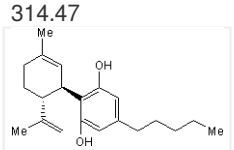
Biological Data

Biological description	Nonpsychoactive cannabinoid found in cannabis. Demonstrates low affinity for CB_1 and CB_2 receptors (K_i values are 4.35 and 2.86 μM respectively). Also acts as a GPR55 antagonist. Shows anxiolytic, anti psychotic, antidepressant and neuroprotective properties. Active *in vivo*,

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in ethanol (75 mM) and in DMSO (75 mM)
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	2-[(1R,6R)-3-Methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-1,3-benzenediol
Molecular Weight	314.47
Chemical structure	
Molecular Formula	$C_{21}H_{30}O_2$
CAS Number	13956-29-1

PubChem identifier	644019
SMILES	CCCCCC1=CC(=C(C(=C1)O)[C@@H]2C=C(CC[C@H]2C(=C)C)C)O
InChi	InChI=1S/C21H30O2/c1-5-6-7-8-16-12-19(22)21(20(23)13-16)18-11-15(4)9-10-17(18)14(2)3/h11-13,17-18,22-23H,2,5-10H2,1,3-4H3/t17-,18+/m0/s1
InChiKey	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
MDL number	MFCD00869597

References

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: delta9-tetrahydrocannabinol, cannabidiol and delta9-tetrahydrocannabivarin.

Pertwee (2008) Br J Pharmacol 153(2)
PubMedID 17828291

Type 1 cannabinoid receptor ligands display functional selectivity in a cell culture model of striatal medium spiny projection neurons.

Laprairie et al (2014) J Biol Chem 289(36)
PubMedID 25037227

The orphan receptor GPR55 is a novel cannabinoid receptor.

Ryberg et al (2007) Br J Pharmacol 152(7)
PubMedID 17876302