

Product Name	: NESS-0327
Synonyms	: NESS 0327; NESS0327
Cat No.	: M14656
CAS Number	: 494844-07-4
Molecular Formula	: C ₂₄ H ₂₃ Cl ₃ N ₄ O
Formula Weight	: 489.80
Chemical Name	: N-piperidinyl-[8-chloro-1-(2,4-dichlorophenyl)-1,4,5,6-tetrahydrobenzo [6,7]cyclohepta[1,2-c]pyrazole-3-carboxamide
Description	A potent, selective CB1 cannabinoid receptor antagonist with K_i of 350 fM, >60,000-fold selective for the CB1 receptor versus CB2 receptor (K_i=21 nM); antagonizes WIN 55,212-2-stimulated [35S]GTPγS binding, antagonizes the inhibitory effects of WIN 55,212-2 on electrically evoked contractions in mouse isolated vas deferens preparations with pA₂ 12.46; inhibits the antinociceptive effect produced by WIN 55,212-2 (2 mg/kg s.c.) in both tail-flick (ID₅₀=0.042 mg/kg i.p.) and hot-plate test (ID₅₀=0.018 mg/kg i.p.).
Pathway	: GPCR/G Protein
Target	: Cannabinoid Receptor
Receptor	: Cannabinoid Receptor
Solubility	: —
SMILES	: <chem>O=C(C1=NN(C2=CC=C(Cl)C=C2Cl)C3=C1CCCC4=CC(Cl)=CC=C43)NN5CCCCC5</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Ruii S, et al. J Pharmacol Exp Ther. 2003 Jul;306(1):363-70. | 2. Tambaro S, et al. Eur J Pharmacol. 2005 Nov 21;525(1-3):150-3. | 3. Murineddu G, et al. J Med Chem. 2005 Nov 17;48(23):7351-62.

