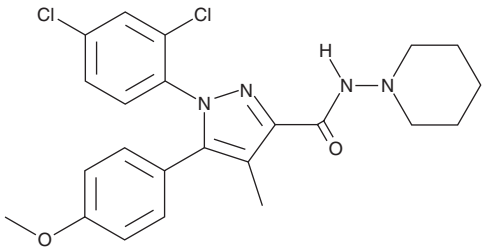
PRODUCT INFORMATION

NIDA-41020

Item No. 21020

CAS Registry No.:	502486-89-7
Formal Name:	1-(2,4-dichlorophenyl)-5-(4-methoxyphenyl)-4-methyl-N-1-piperidinyl-1H-pyrazole-3-carboxamide
MF:	$C_{23}H_{24}Cl_2N_4O_2$
FW:	459.4
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NIDA-41020 is supplied as a crystalline solid. A stock solution may be made by dissolving the NIDA-41020 in the solvent of choice, which should be purged with an inert gas. NIDA-41020 is soluble in organic solvents such as ethanol and DMSO. The solubility of NIDA-41020 in these solvents is approximately 100 mM.

Description

NIDA-41020 is a cannabinoid (CB) receptor 1 antagonist (K_i = 4.1 nM).[1] It binds selectively to CB_1 over CB_2 (K_bs = 26 and 831 nM, respectively).[2] NIDA-41020 was designed as a potential radioligand for use in positron emission tomography (PET).[1]

References

1. Katoch-Rouse, R., Pavlova, O.A., Caulder, T., *et al.* Synthesis, structure-activity relationship, and evaluation of SR141716 analogues: Development of central cannabinoid receptor ligands with lower lipophilicity. *J. Med Chem.* **46(4)**, 642-645 (2003).
2. Donohue, S.R., Halldin, C., and Pike, V.W. Synthesis and structure-activity relationships (SARs) of 1,5-diarylpyrazole cannabinoid type-1 (CB_1) receptor ligands for potential use in molecular imaging. *Bioorg. Med. Chem.* **14(11)**, 3712-3720 (2006).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM