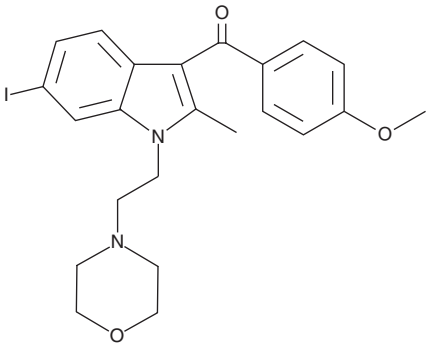
PRODUCT INFORMATION

AM630

Item No. 10006974



CAS Registry No.:	164178-33-0
Formal Name:	[6-iodo-2-methyl-1-[2-(4-morpholinyl)ethyl]-1H-indol-3-yl](4-methoxyphenyl)-methanone
Synonym:	6-Iodopravodoline
MF:	$C_{23}H_{25}IN_2O_3$
FW:	504.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 229, 283 nm
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

AM630 is supplied as a crystalline solid. A stock solution may be made by dissolving the AM630 in the solvent of choice. AM630 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of AM630 in these solvents is approximately 3 and 10 mg/ml, respectively.

AM630 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AM630 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. AM630 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AM630 binds selectively to cannabinoid 2 (CB_2) over CB_1 receptors with K_i values of 31.2 and 5,152 nM, respectively.[1] AM630 acts as an inverse agonist at CB_2 receptors, attenuating the antinociceptive effects of a number of cannabinoids, and as a weak partial agonist at CB_1 receptors.[1-3] It decreases proliferation and induces arrest of the cell cycle at the G_2/M phase in renal cell carcinoma cells.[4]

References

1. Ross, R.A., Brockie, H.C., Stevenson, L.A., *et al.* Agonist-inverse agonist characterization at CB_1 and CB_2 cannabinoid receptors of L759633, L759656 and AM630. *Br. J. Pharmacol.* **126(3)**, 665-672 (1999).
2. Malan, T.P., Jr., Ibrahim, M.M., Deng, H., *et al.* CB_2 cannabinoid receptor-mediated peripheral antinociception. *Pain* **93(3)**, 239-245 (2001).
3. Bisogno, T., Ortar, G., Petrosino, S., *et al.* Development of a potent inhibitor of 2-arachidonoylglycerol hydrolysis with antinociceptive activity *in vivo*. *Biochim. Biophys. Acta* **1791(1)**, 53-60 (2009).
4. Wang, J., Xu, Y., Zhu, L., *et al.* Cannabinoid receptor 2 as a novel target for promotion of renal cell carcinoma prognosis and progression. *J. Cancer Res. Clin. Oncol.* (2017).

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