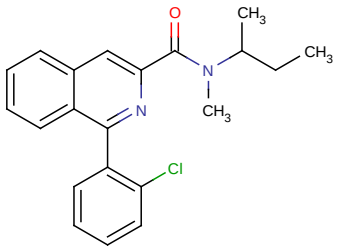
Catalog # 10-2221
PK 11195

CAS# 85532-75-8
1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide
Lot # X102109



PK-11195 is a selective and potent peripheral benzodiazepine receptor, PBR (or TSPO, translocator protein) antagonist.[1,2] It has been shown to chemosensitize tumor cells to a variety of chemotherapeutic agents via PBR-independent pathways.[3,4] PK11195 is also able to induce apoptosis in a variety of cell lines.[5,6,7]

1) Le Fur, *et al.;* (1983) *Peripheral benzodiazepine binding sites: effect of PK 11195, 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide. I. In vitro studies* Life Sci. **32** 1839
2) Le Fur, *et al.;* (1983) *Peripheral benzodiazepine binding sites: effect of PK 11195, 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide. II. In vivo studies* Life Sci. 32 1849
3) Gonzalez-Polo *et al.* (2005) *PK11195 potently sensitizes to apoptosis induction independently from the peripheral benzodiazepine receptor*. Oncogene **24** 7503
4) Walter *et al*. (2005) *PK11195, a peripheral benzodiazepine receptor (pBR) ligand, broadly blocks drug efflux to chemosensitize leukemia and myeloma cells by a pBR-independent, direct transporter-modulating mechanism*. Blood **106** 3584
5) Chelli *et al*. (2004) *Peripheral benzodiazepine receptor ligands:mitochondrial transmembrane potential depolarization and apoptosis induction in rat C6 glioma cells.* Biochem.Pharmacol. **68** 125
6) Sutter *et al*. (2004) *Peripheral benzodiazepine receptor ligands induce apoptosis and cell cycle arrest in human hepatocellular carcinoma cells and enhance chemosensitivity to paclitaxel, docetaxel, doxorubicin and the Bcl-2-inhibitor HA14-1.* J.Hepatol. **120** 1212
7) Maaser *et al*. (2001) *Specific ligands of the peripheral benzodiazepine receptor induce apoptosis and cell cycle arrest in human colorectal cancer cells* Br.J.Cancer **85** 1771

PHYSICAL DATA

Molecular Weight:	352.86
Molecular Formula:	$C_{21}H_{21}ClN_2O$
Purity:	>98%
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml); ethanol (up to 15 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase.
	Protect from exposure to air. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com