

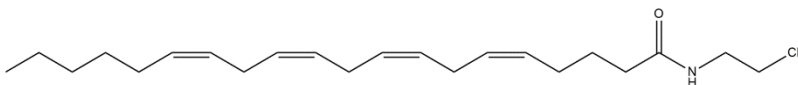
Arachidonoyl 2'-Chloroethylamide

04/20

ALTERNATE NAMES: ACEA; (5Z,8Z,11Z,14Z)-N-(2-chloroethyl)icosa-5,8,11,14-tetraenamide; arachidonyl-2-chloroethylamide; N-(2-chloroethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

CATALOG #: B3015-5 5 mg
B3015-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₃₆ClNO

MOLECULAR WEIGHT: 366.0

CAS NUMBER: 220556-69-4

APPEARANCE: Colorless Liquid

PURITY: ≥95%

SOLUBILITY: ~25 mg/ml in Ethanol
~30 mg/ml in DMF
~20 mg/ml in DMSO

DESCRIPTION: Arachidonyl-2-chloroethylamide (ACEA) is a high affinity agonist of cannabinoid receptor CB1. It binds to the CB1 receptor with high affinity (K_i value of 1.4 nM) and to the CB2 receptor with low affinity (K_i value of 3.1 μM). It inhibits forskolin-induced accumulation of cAMP in Chinese hamster ovary cells expressing the human CB1 receptor. It increases the binding of [35S]GTPγS to cerebellar membranes and inhibits electrically evoked contractions of the mouse vas deferens. It produces hypothermia in mice.

STORAGE TEMPERATURE: -80°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

- Pertwee, R.G. Pharmacology of cannabinoid receptor ligands. *Curr. Med. Chem.* 6(8), 635-664 (1999).
- Hillard, C.J., Manna, S., Greenberg, M.J., et al. Synthesis and characterization of potent and selective agonists of the neuronal cannabinoid receptor (CB1). *J. Pharmacol. Exp. Ther.* 289(3), 1427-1433 (1999).

RELATED PRODUCTS:

WIN 55,212-2 Mesylate (Cat. No. B3012)
 BAY 59-3074 (Cat. No. B1247)
 2-Arachidonoylglycerol (Cat. No. B2992)
 SR-144528 (Cat. No. B2615)
 Leelamine hydrochloride (Cat. No. 2717)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**