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Certificate Of Analysis

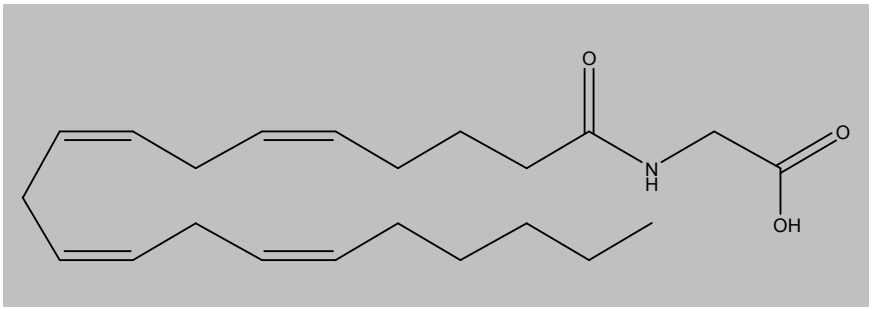
Quality Control Testing and Research Application

COA Preparation Date: 24/10/2014
COA Revision Date: 24/10/2017

Product:	***N*-Arachidonoylglycine**
Cat. No.:	BN0369
Batch No.:	0369BN/01
Chemical Name:	*N*-(1-oxo-5Z,8Z,11Z,14Z-eicosatetraenyl)glycine; NAGly

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{22}H_{35}NO_3$
Batch Molecular Weight:	361.52
CAS No.:	[179113-91-8]
Physical Appearance:	White waxy solid
Melting Point:	44 - 46° C
Solubility:	Soluble to 100 mM in ethanol or in DMSO
Storage:	Desiccate at -20° C (protect from light)
Batch Molecular Structure:	



Product Description: **Endogenous anandamide-like compound. No affinity for CB_1 receptors (K_i > 10 µM), VR1 receptors (EC_{50} > 10 µM) and anandamide transporters (IC_{50} > 50 µM). Displays hot-plate analgesia in mice and suppresses tonic inflammatory pain. A potent inhibitor of the Fatty Acid Amide Hydrolase (FAAH). Also reported to be a novel insulin secretagogues, increases $[Ca^{2+}]_i$ through stimulation of the voltage-dependent Ca^{2+} channels.**

References:

1. Sheskin et al. (1997) J Med Chem 40:659; 2. Burnstein et al. (2000) Prostaglandins Other Lipid Mediat 61:29; 3. Huang et al. (2001) J Biol Chem 27642639; 4. Cascio et al. (2004) Biochem Biophys Res Commun 314:192; 5. Ikeda et al. (2005) Biochem Biophys Res Commun 333:778

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BN0369 *N*-Arachidonoylglycine

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	HPLC Assay: > 98% (complies).