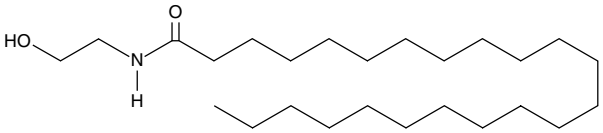
Product Information

Tricosanoyl Ethanolamide

Item No. 9001743

CAS Registry No.: 171022-15-4
Formal Name: N-(2-hydroxyethyl)-tricosanamide
MF: $C_{25}H_{51}NO_2$
FW: 397.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that tricosanoyl ethanolamide be stored as supplied at -20°C. It should be stable for at least two years.

Tricosanoyl ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the tricosanoyl ethanolamide in the solvent of choice. Tricosanoyl ethanolamide is soluble in chloroform. The solubility of tricosanoyl ethanolamide in chloroform is approximately 1 mg/ml.

Tricosanoyl ethanolamide is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Tricosanoyl ethanolamide is a member of the family of fatty N-acyl ethanolamines collectively called endocannabinoids.[1-4] The relative importance of this ethanolamine metabolite has yet to be determined.

References

1. Bachur, N.R. and Udenfriend, S. Microsomal synthesis of fatty acid amides. *J. Biol. Chem.* **241**, 1308-1313 (1966).
2. Doetsch, P.W., Zastawny, T.H., Martin, A.M., *et al.* Monomeric base damage products from adenine, guanine, and thymine induced by exposure of DNA to ultraviolet radiation. *Biochemistry* **34**, 737-742 (1995).
3. Saghatelian, A., Trauger, S.A., Want, E.J., *et al.* Assignment of endogenous substrates to enzymes by global metabolite profiling. *Biochemistry* **43**, 14332-14339 (2004).
4. Buczynski, M.W., Svensson, C.I., Dumlao, D.S., *et al.* Inflammatory hyperalgesia induces essential bioactive lipid production in the spinal cord. *J. Neurochem.* **114**, 981-993 (2010).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/9001743

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com