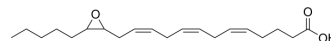


(±)14,15-Epoxyeicosatrienoic acid

Cat. No.:	HY-150084
CAS No.:	197508-62-6
Molecular Formula:	C ₂₀ H ₃₂ O ₃
Molecular Weight:	320.47
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(±)14,15-Epoxyeicosatrienoic acid ((±)14(15)-EET) is the Cytochrome P450 metabolite of arachidonic acid. While CYP3A4 may be involved in breast cancer cell growth, (±)14,15-Epoxyeicosatrienoic acid may promote mitosis and anchorage-dependent cloning through STAT3 affected by CYP3A4. (±)14,15-Epoxyeicosatrienoic acid exhibits STAT3-dependent cell growth promotion and may also participate in the autocrine/paracrine pathway that drives cell growth^{[1][2]}.

REFERENCES

[1]. Mitra R, et al. CYP3A4 mediates growth of estrogen receptor-positive breast cancer cells in part by inducing nuclear translocation of phospho-Stat3 through biosynthesis of (±)-14,15-epoxyeicosatrienoic acid (EET). *J Biol Chem.* 2011 May 20;286(20):17543-59.

[2]. Zhang DX, et al. Acetylcholine-induced relaxation and hyperpolarization in small bovine adrenal cortical arteries: role of cytochrome P450 metabolites. *Endocrinology.* 2004 Oct;145(10):4532-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA