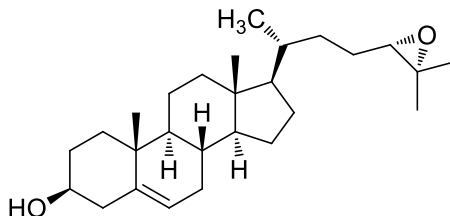


**Catalog # 10-1330**  
**24(S),25-Epoxycholesterol**

CAS# 77058-74-3

Lot # S103067



Cholesterol metabolite. Endogenous agonist for nuclear receptor LXR<sup>1</sup>. Controls cellular cholesterol homeostasis<sup>2</sup>. Promotes neural development in zebra fish as well as dopaminergic differentiation of embryonic stem cells<sup>3</sup>. Cell permeable.

- 1) Chawla *et al.* (2001), *Nuclear receptors and lipid physiology: opening the X-files*; *Science*, **294** 1866
- 2) Brown *et al.* (2009), *24(S),25-epoxycholesterol: a messenger for cholesterol homeostasis*; *Int. J. Biochem. Cell Biol.*, **41** 744
- 3) Theofilopoulos *et al.* (2013), *Brain endogenous liver X receptor ligands selectively promote midbrain neurogenesis*; *Nature Chem. Biol.*, **9** 126

**PHYSICAL DATA**

Molecular Weight:	400.65
Molecular Formula:	C <sub>27</sub> H <sub>44</sub> O <sub>2</sub>
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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