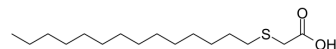


2-(Tetradecylthio)acetic acid

Cat. No.: HY-139040
CAS No.: 2921-20-2
Molecular Formula: C₁₆H₃₂O₂S
Molecular Weight: 288.49
Target: PPAR
Pathway: Cell Cycle/DNA Damage
Storage: 4°C, stored under nitrogen
 * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 2 mg/mL (6.93 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.4663 mL	17.3316 mL	34.6632 mL
	5 mM		0.6933 mL	3.4663 mL	6.9326 mL
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2-Tetradecylthio acetic acid is a pan-peroxisome proliferator activated receptor (pan-PPAR) activator. 2-Tetradecylthio acetic acid induces hypolipidemia. 2-Tetradecylthio acetic acid reduces plasma lipids and enhances hepatic fatty acid oxidation in rodents. 2-Tetradecylthio acetic acid increases the expression of genes involved in fatty acid uptake, activation, accumulation, and oxidation^{[1][2]}.

REFERENCES

[1]. Vaagenes H, et al. Methylated eicosapentaenoic acid and tetradecylthioacetic acid: effects on fatty acid metabolism. *Biochem Pharmacol.* 1999 Oct 1;58(7):1133-43.

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

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