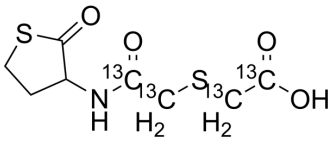
Erdosteine-$^{13}C_4$

Cat. No.:	HY-B0289S
Molecular Formula:	$C_4{}^{13}C_4H_{11}NO_4S_2$
Molecular Weight:	253.28
Target:	NF-κB; Bacterial; Isotope-Labeled Compounds
Pathway:	NF-κB; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Erdosteine-$^{13}C_4$ is a ^{13}C-labeled Erdosteine. Erdosteine inhibits lipopolysaccharide (LPS)-induced NF-κB activation[1][2]. Erdosteine has muco-modulatory, anti-bacterial, anti-inflammatory and anti-oxidant effects[3].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Park JS, et al. Anti-inflammatory Effect of Erdosteine in Lipopolysaccharide-Stimulated RAW 264.7 Cells. Inflammation. 2016 Aug;39(4):1573-81.;Oktar S, et al. Beneficial effect of erdosteine on methotrexate-induced testicular toxicity in mice. Toxicol Ind

[2]. Oktar S, et al. Beneficial effect of erdosteine on methotrexate-induced testicular toxicity in mice. Toxicol Ind Health. 2010 Aug;26(7):433-8.

[3]. Park JS, et al. Anti-inflammatory Effect of Erdosteine in Lipopolysaccharide-Stimulated RAW 264.7 Cells. Inflammation. 2016 Aug;39(4):1573-81.

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