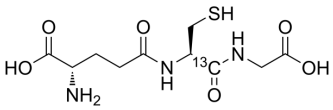
L-Glutathione reduced-^{13}C

Cat. No.:	HY-D0187S4
Molecular Formula:	$C_9{}^{13}CH_{17}N_3O_6S$
Molecular Weight:	308.32
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Glutathione reduced-^{13}C (GSH-^{13}C; γ-L-Glutamyl-L-cysteinyl-glycine-^{13}C) is ^{13}C-labeled L-Glutathione reduced (HY-D0187). L-Glutathione reduced is an endogenous antioxidant and oxygen free radical scavenger.
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]. Pereira-Rodrigues N, et al. Electrocatalytic activity of cobalt phthalocyanine CoPc adsorbed on a graphite electrode for the oxidation of reduced L-glutathione (GSH) and the reduction of its disulfide (GSSG) at physiological pH. Bioelectrochemistry. 2007 Jan;70(1):147-54.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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