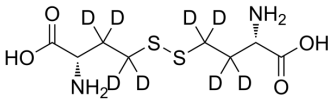
L-Homocystine-d_8

Cat. No.:	HY-W011690S
CAS No.:	182755-41-5
Molecular Formula:	$C_8H_8D_8N_2O_4S_2$
Molecular Weight:	276.4
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	L-Homocystine-d_8 is the deuterium labeled L-Homocystine. L-Homocystine is the oxidized member of the L-homocysteine. Homocysteine is a pro-thrombotic factor, vasodilation impairing agent, pro-inflammatory factor and endoplasmatic reticulum-stress inducer used to study cardiovascular disease mechanisms.
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Padmanabhan R, et al. Effect of maternal exposure to homocystine on sodium valproate-induced neural tube defects in the mouse embryos. Eur J Nutr. 2006 Sep;45(6):311-9

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