
Product Data Sheet

Product Name: L-Cystine-d4

Cat. No.: GC71839

Chemical Properties

Cas. No. 1192736-38-1

Formula $C_6H_8D_4N_2O_4S_2$

M.Wt 244.33

Solubility H_2O : 4.55 mg/mL (18.62 mM; ultrasonic and warming and adjust pH to 1 with HCl and heat to 60°C) Storage storage, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

L-Cystine-d4 is the deuterium labeled L-Cystine. L-Cystine is an amino acid and intracellular thiol, which plays a critical role in the regulation of cellular processes.

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].

<p >References:

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

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

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