
Product Data Sheet

Product Name: L-Tyrosine D4

Cat. No.: GC68038

Chemical Properties

Cas. No. 62595-14-6

Formula $C_9H_7D_4NO_3$

M.Wt 185.21

Solubility H₂O : 4.81 mg/mL (25.97 mM; ultrasonic and warming and adjust pH to 10 with NaOH and heat to 60°C)

Storage 4°C, sealed 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-Tyrosine D4 is a deuterium labeled L-Tyrosine. L-Tyrosine is a non-essential amino acid which can inhibit citrate synthase activity in the posterior cortex^[1].

L-Tyrosine inhibits citrate synthase activity in the posterior cortex (2.0 and 4.0 mM), malate dehydrogenase is not altered by L-Tyrosine and succinate dehydrogenase is increased in the posterior cortex (0.1-4.0 mM), hippocampus (1.0-4.0 mM), striatum (4.0 mM) and liver (0.1-4.0 mM)^[1].

[1]. Ferreira GK, et al. Effect of L-tyrosine in vitro and in vivo on energy metabolism parameters in brain and liver of young rats. Neurotox Res. 2013 May;23(4):327-35.

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

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