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**Product Data Sheet**

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Product Name: L-Glutamic  $\gamma$ -monohydroxamate

Cat. No.: GC67559

**Chemical Properties**

Cas. No. 1955-67-5

Formula  $C_5H_{10}N_2O_4$  M.Wt 162.14Solubility Storage Store at  $-20^{\circ}C$ 

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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-Glutamic  $\gamma$ -monohydroxamate is an antitumor agent, inhibits cell proliferation. L-Glutamic  $\gamma$ -monohydroxamate selectively inhibits the uptake of L-histidine into microvascular endothelial cell. L-Glutamic  $\gamma$ -monohydroxamate, as a vanadium ligand, activates glucose uptake and metabolism, thus decreases the blood glucose levels in vivo<sup>[1][2][3]</sup>.

[1]. Vila J, et al. In vitro and in vivo anti-tumor activity of L-glutamic acid gamma-monohydroxamate against L1210 leukemia and B16 melanoma. Int J Cancer. 1990 Apr 15;45(4):737-43.

[2]. Sakurai E, et al. Stereoselective transport of histidine in rat lung microvascular endothelial cells. Am J Physiol Lung Cell Mol Physiol. 2002 Jun;282(6):L1192-7.

[3]. Goldwasser I, et al. L-Glutamic acid gamma-monohydroxamate. A potentiator of vanadium-evoked glucose metabolism in vitro and in vivo. J Biol Chem. 1999 Sep 10;274(37):26617-24.

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

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