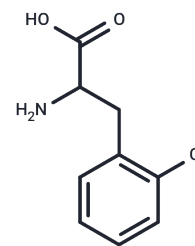


2-Amino-3-(2-chlorophenyl)propanoic acid

Chemical Properties

CAS No. :	14091-11-3
Formula:	C ₉ H ₁₀ ClNO ₂
Molecular Weight:	199.63
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	2-Amino-3-(2-chlorophenyl)propanoic acid (2-Chloro-DL-Phenylalanine) is a phenylalanine derivative involved in biometabolism.
Targets(IC50)	Amino Acids and Derivatives
In vitro	Commercially used as ergogenic supplements, amino acids and amino acid derivatives such as 2-Amino-3-(2-chlorophenyl)propanoic acid have been recognized to be beneficial as ergogenic dietary substances. They influence the secretion of anabolic hormones, supply fuel during exercise, enhance mental performance during stress-related tasks, and prevent exercise-induced muscle damage[1].

Solubility Information

Solubility	H ₂ O: 20 mg/mL (100.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0093 mL	25.0463 mL	50.0927 mL
5 mM	1.0019 mL	5.0093 mL	10.0185 mL
10 mM	0.5009 mL	2.5046 mL	5.0093 mL
50 mM	0.1002 mL	0.5009 mL	1.0019 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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