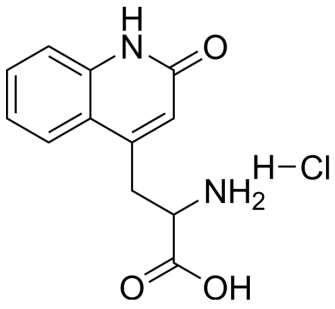
2-Amino-3-(2-oxo-1,2-dihydroquinolin-4-yl)propanoic acid hydrochloride



Cat. No.:	HY-W040804		
CAS No.:	4876-14-6		
Molecular Formula:	$C_{12}H_{13}ClN_2O_3$		
Molecular Weight:	268.7		
Target:	Amino Acid Derivatives		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (186.08 mM)

H_2O : 1 mg/mL (3.72 mM; ultrasonic and adjust pH to 2 with HCl)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.7216 mL	18.6081 mL	37.2162 mL
5 mM	0.7443 mL	3.7216 mL	7.4432 mL
10 mM	0.3722 mL	1.8608 mL	3.7216 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2-Amino-3-(2-oxo-1,2-dihydroquinolin-4-yl)propanoic acid hydrochloride is an alanine derivative[1].

In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1117.

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

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