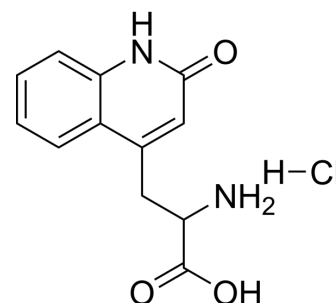


## 2-Amino-3-(2-oxo-1,2-dihydroquinolin-4-yl)propanoic acid hydrochloride

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-W040804  |       |          |
| <b>CAS No.:</b>           | 4876-14-6   |       |          |
| <b>Molecular Formula:</b> | C <sub>12</sub> H <sub>13</sub> ClN <sub>2</sub> O <sub>3</sub> |       |          |
| <b>Molecular Weight:</b>  | 268.7   |       |          |
| <b>Target:</b>            | Amino Acid Derivatives  |       |          |
| <b>Pathway:</b>           | Others  |       |          |
| <b>Storage:</b>           | 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<sub>2</sub>O : 1 mg/mL (3.72 mM; ultrasonic and adjust pH to 2 with HCl)  
 \* "≥" means soluble, but saturation unknown.

|                              | Solvent<br>Concentration | Mass      |            |            |
|------------------------------|--------------------------|-----------|------------|------------|
|                              |                          | 1 mg      | 5 mg       | 10 mg      |
| Preparing<br>Stock Solutions | 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<sup>[1]</sup>.

#### 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<sup>[1]</sup>.  
 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.

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

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