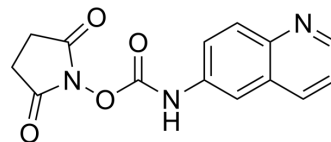


## AQC

<b>Cat. No.:</b>	HY-117695
<b>CAS No.:</b>	148757-94-2
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>11</sub> N <sub>3</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	285.25
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (350.57 mM; Need ultrasonic)																									
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td><b>Preparing Stock Solutions</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>3.5057 mL</td> <td>17.5285 mL</td> <td>35.0570 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.7011 mL</td> <td>3.5057 mL</td> <td>7.0114 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.3506 mL</td> <td>1.7528 mL</td> <td>3.5057 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	<b>Preparing Stock Solutions</b>					1 mM		3.5057 mL	17.5285 mL	35.0570 mL	5 mM		0.7011 mL	3.5057 mL	7.0114 mL	10 mM		0.3506 mL	1.7528 mL	3.5057 mL
Solvent Concentration	Mass		1 mg	5 mg	10 mg																					
	<b>Preparing Stock Solutions</b>																									
1 mM		3.5057 mL	17.5285 mL	35.0570 mL																						
5 mM		0.7011 mL	3.5057 mL	7.0114 mL																						
10 mM		0.3506 mL	1.7528 mL	3.5057 mL																						
	Please refer to the solubility information to select the appropriate solvent.																									
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution</li> </ol>																									

## BIOLOGICAL ACTIVITY

<b>Description</b>	AQC (6-Aminoquinolyl-N-hydroxysuccinimidyl carbamate) is a reagent used for amino acid or protein sequence analysis by HPLC with fluorescence detection. AQC reacts with primary and secondary amino acids to yield fluorescent derivatives, allowing amino acid detection at under-picomolar levels <sup>[1][2]</sup> .
<b>In Vitro</b>	The use of AQC (6-Aminoquinolyl-N-hydroxysuccinimidyl carbamate), which reacts with primary and secondary amino acids to yield fluorescent derivatives (λ excitation and emission at 250 and 395 nm, respectively), allowing amino acid detection at under-picomolar levels, overcomes many of the drawbacks associated with the rest of derivatising reagents <sup>[1][2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## CUSTOMER VALIDATION

- J Chromatogr Sci. 2022 Dec 26;bmac103.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

---

## REFERENCES

- [1]. Bosch L, et al. Application of the 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate (AQC) reagent to the RP-HPLC determination of amino acids in infant foods. J Chromatogr B Analyt Technol Biomed Life Sci. 2006;831(1-2):176-183.
- [2]. Cohen SA, et al. Applications of amino acid derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate. Analysis of feed grains, intravenous solutions and glycoproteins. J Chromatogr A. 1994;661(1-2):25-34.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA