

# PRODUCT INFORMATION



## Ac-QQQ-AMC (hydrochloride)

Item No. 27711

**Formal Name:** (S)-2-acetamido-N<sup>1</sup>-((S)-5-amino-1-(((S)-5-amino-1-((4-methyl-2-oxo-2H-chromen-7-yl)amino)-1,5-dioxopentan-2-yl)amino)-1,5-dioxopentan-2-yl)pentanediamide, hydrochloride

**Synonyms:** Ac-Gln-Gln-Gln-AMC,  
Ac-Gln-Gln-Gln-7-amino-4-methylcoumarin,  
Ac-L-Gln-L-Gln-L-Gln-AMC

**MF:** C<sub>27</sub>H<sub>35</sub>N<sub>7</sub>O<sub>9</sub> • XHCl

**FW:** 601.6

**Purity:** ≥95%

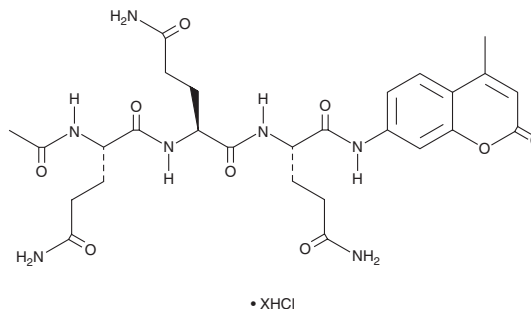
**Ex./Em. Max:** 340-360/440-460 nm

**UV/Vis.:** λ<sub>max</sub>: 327 nm

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Ac-QQQ-AMC (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the Ac-QQQ-AMC (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Ac-QQQ-AMC (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of Ac-QQQ-AMC (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Ac-QQQ-AMC (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Ac-QQQ-AMC (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Ac-QQQ-AMC (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Ac-QQQ-AMC is a fluorogenic probe. L-Glutamine tripeptide (QQQ) is a substrate for peptidoglutaminase I and II from the bacterium *B. circulans*.<sup>1</sup> AMC displays excitation/emission maxima of 340-360/440-460 nm, respectively.

### Reference

1. Kikuchi, M. A new enzymic method for determination of glutamine in proteins or peptides using peptidoglutaminases. *Anal. Biochem.* **59**(1), 83-90 (1974).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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