# Fmoc-Ala-Glu-Gln-Lys-NH2

**Cat. No.:** HY-P3882

**Molecular Formula:** $C_{34}H_{45}N_7O_9$

**Molecular Weight:** 695.76

**Target:** Amino Acid Derivatives

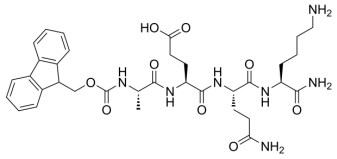
**Pathway:** Others

**Storage:** Sealed storage, away from moisture and light, under nitrogen

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 3.57 mg/mL (5.13 mM; Need ultrasonic)

$H_2O$ : < 0.1 mg/mL (ultrasonic;adjust pH to 2 with HCl) (insoluble)

**Preparing Stock Solutions**

| Concentration \ Solvent \ Mass | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 1.4373 mL | 7.1864 mL | 14.3728 mL |
| 5 mM | 0.2875 mL | 1.4373 mL | 2.8746 mL |
| 10 mM | --- | --- | --- |

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

## BIOLOGICAL ACTIVITY

**Description**

Fmoc-Ala-Glu-Gln-Lys-NH2 (AEQK) is a tetrapeptide. Fmoc-Ala-Glu-Gln-Lys-NH2 is the inactive control for Fmoc-Ala-Glu-Asn-Lys-NH2 (AENK) peptide inhibitor. AENK blocks proteolysis of UNC5C protein[1].

**In Vitro**

Fmoc-Ala-Glu-Gln-Lys-NH2 (45 min; pH=6) has no effect on the proteolysis of UNC5C, while Fmoc-Ala-Glu-Asn-Lys-NH2 (AENK) exerts inhibition[1].

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

## REFERENCES

[1]. Chen G, et al. Netrin-1 receptor UNC5C cleavage by active δ-secretase enhances neurodegeneration, promoting Alzheimer's disease pathologies. Sci Adv. 2021 Apr 16;7(16):eabe4499.

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

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