

## AMARA peptide TFA

|                           |   |                            |
|---------------------------|---|----------------------------|
| <b>Cat. No.:</b>          | HY-P1576A   |                            |
| <b>Molecular Formula:</b> | C <sub>64</sub> H <sub>116</sub> F <sub>3</sub> N <sub>27</sub> O <sub>18</sub> S   |                            |
| <b>Molecular Weight:</b>  | 1640.84   |                            |
| <b>Target:</b>            | AMPK  | AMARAASAAALARRR (TFA salt) |
| <b>Pathway:</b>           | Epigenetics; PI3K/Akt/mTOR  |                            |
| <b>Storage:</b>           | Sealed storage, away from moisture  |                            |
|                           | Powder -80°C 2 years  |                            |
|                           | -20°C 1 year  |                            |
|                           | * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |                            |

### SOLVENT & SOLUBILITY

|                 |  |                      |             |             |             |              |
|-----------------|--|----------------------|-------------|-------------|-------------|--------------|
| <b>In Vitro</b> | H <sub>2</sub> O : 50 mg/mL (30.47 mM; Need ultrasonic)  |                      |             |             |             |              |
|                 | <b>Preparing Stock Solutions</b>   | <b>Solvent</b>       | <b>Mass</b> | <b>1 mg</b> | <b>5 mg</b> | <b>10 mg</b> |
|                 |  | <b>Concentration</b> |             |             |             |              |
|                 |  | <b>1 mM</b>          |             | 0.6094 mL   | 3.0472 mL   | 6.0944 mL    |
|                 |  | <b>5 mM</b>          |             | 0.1219 mL   | 0.6094 mL   | 1.2189 mL    |
|                 | <b>10 mM</b>   |                      | 0.0609 mL   | 0.3047 mL   | 0.6094 mL   |              |
|                 | Please refer to the solubility information to select the appropriate solvent.                              |                      |             |             |             |              |
| <b>In Vivo</b>  | 1. Add each solvent one by one: PBS<br>Solubility: 33.33 mg/mL (20.31 mM); Clear solution; Need ultrasonic |                      |             |             |             |              |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | AMARA peptide (TFA) is a substrate for salt-inducible kinase (SIK) and adenosine monophosphate activated protein kinase (AMPK). |
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### REFERENCES

[1]. Shan T, et al. Lkb1 controls brown adipose tissue growth and thermogenesis by regulating the intracellular localization of CRTC3. Nat Commun. 2016 Jul 27;7:12205.

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

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