

## Caerulein, desulfated TFA

|                             |   |  |         |
|-----------------------------|---|--|---------|
| <b>Cat. No.:</b>            | HY-P1800A   |  |         |
| <b>Molecular Formula:</b>   | C <sub>60</sub> H <sub>74</sub> F <sub>3</sub> N <sub>13</sub> O <sub>20</sub> S    |  |         |
| <b>Molecular Weight:</b>    | 1386.36   |  |         |
| <b>Sequence:</b>            | {Glp}-Gln-Asp-Tyr-Thr-Gly-Trp-Met-Asp-Phe-NH <sub>2</sub>                           | {Glp}-QDYTGWMDF-NH <sub>2</sub> (TFA salt) |         |
| <b>Sequence Shortening:</b> | {Glp}-QDYTGWMDF-NH <sub>2</sub>   |  |         |
| <b>Target:</b>              | Others  |  |         |
| <b>Pathway:</b>             | Others  |  |         |
| <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

#### In Vitro

DMSO : 100 mg/mL (72.13 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

| Preparing Stock Solutions | Solvent Concentration | Mass      |           |           |
|---------------------------|-----------------------|-----------|-----------|-----------|
|                           |                       | 1 mg      | 5 mg      | 10 mg     |
|                           | 1 mM                  | 0.7213 mL | 3.6066 mL | 7.2131 mL |
|                           | 5 mM                  | 0.1443 mL | 0.7213 mL | 1.4426 mL |
|                           | 10 mM                 | 0.0721 mL | 0.3607 mL | 0.7213 mL |

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (1.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (1.80 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (1.80 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Caerulein, desulfated TFA is the desulfurated form of Caerulein. Caerulein is a decapeptide having the same five carboxyl-terminal amino acids as gastrin and cholecystokinin (CCK)<sup>[1]</sup>.

### CUSTOMER VALIDATION

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- Proc Natl Acad Sci U S A. 2020 Mar 24;117(12):6622-6629.

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## REFERENCES

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[1]. Johnson LR, et al. Effect of sulfation on the gastrointestinal actions of caerulein. Gastroenterology. 1970 Feb;58(2):208-16.

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

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