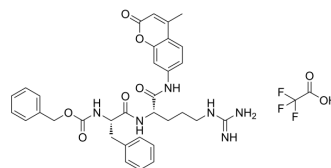


N-CBZ-Phe-Arg-AMC TFA

| | |
|-----------------------------|--|
| Cat. No.: | HY-P1759B |
| Molecular Formula: | C ₃₅ H ₃₇ F ₃ N ₆ O ₈ |
| Molecular Weight: | 726.7 |
| Sequence Shortening: | CBZ-FR-AMC |
| Target: | Cathepsin |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 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 : 50 mg/mL (68.80 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | | | 10 mg | |
| Preparing Stock Solutions | 1 mM | 1.3761 mL | 6.8804 mL | 13.7608 mL |
| | 5 mM | 0.2752 mL | 1.3761 mL | 2.7522 mL |
| | 10 mM | 0.1376 mL | 0.6880 mL | 1.3761 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (6.88 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% saline Solubility: 5 mg/mL (6.88 mM); Clear solution; Need ultrasonic | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | N-CBZ-Phe-Arg-AMC (Z-FR-AMC) TFA is a cathepsin substrate used in assessment activity of lysosomal cathepsin enzymes ^[1] [2]. |
|--------------------|--|

REFERENCES

- [1]. Xu P, et al. Ascorbic acid modulation of iron homeostasis and lysosomal function in trabecular meshwork cells. J Ocul Pharmacol Ther. 2014 Mar-Apr;30(2-3):246-53.
- [2]. Porter K, et al. Lysosomal basification and decreased autophagic flux in oxidatively stressed trabecular meshwork cells: implications for glaucoma pathogenesis.

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

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