

## Ac-Phe-Thiaphe-OH Substrate

Ac-Phe-Thiaphe-OH

CATALOG #  
AAA60627

### PRODUCT SYNONYMS

Ac-Phe-Thiaphe-OH; Ac-Phe-Thiaphe-OH substrate

### PRODUCT SPECIFICATIONS

|                                                                                                       |                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                                                                                   | HPLC profile included (purity 99.6%)                                                                                                                                                                    |
| Form/Format                                                                                           | White Powder                                                                                                                                                                                            |
| Formula                                                                                               | C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S                                                                                                                                         |
| ES-MS                                                                                                 | Expected : 373.45 (1+)                                                                                                                                                                                  |
| Optical Rotation                                                                                      | [ $\alpha$ ] <sub>D</sub> = 133.2° C=1 in DMSO                                                                                                                                                          |
| Elemental analysis for the formula<br>C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S | Theory:<br>C 58.39 , H 5.63, N 7.17, S 8.20<br>Found:<br>C 58.39, H 5.24, N 7.16, S 7.92                                                                                                                |
| Solubility                                                                                            | 1 mg in 100 ~ul DMSO<br>1 mg in 500 ~ul EtOH<br>Not soluble : 1 mg: 5 ml H <sub>2</sub> O                                                                                                               |
| Preparation and Storage                                                                               | Please store dry and frozen (-20°C). The undissolved peptide is stable below -20°C in the dark for more than one year. The solution stability has not been tested, therefore, prompt use is recommended |

### ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Related Product Information for Ac-Phe-Thiaphe-OH substrate | N-Acetyl-L-Phenylalanyl-L-3-Thiaphenylalanine Dipeptide Mimetic Substrate for Carboxypeptidase A (M.W. 372.45) C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S P. Shamamian, S. Marcus, E. Deutsch, T. Maldonado, A. Liu, J. Stewart, K. Eng, and C. Gilvarg, Presented at the Annual Meeting of the Society for Surgery of the Alimentary Tract, May 1998. K.S. Brown, W.D. Kingsbury, N.M. Hall, G.L. Dunn, and C. Gilvarg, Anal. Biochem., 161, 219 (1987). S.Y. Hwang, W.D. Kingsbury, N.M. Hall, D.R. Jakas, G.L. Dunn, and C. Gilvarg, Anal. Biochem., 154, 552 (1986). |
| Product Categories/Family for Ac-Phe-Thiaphe-OH substrate   | Enzyme Substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

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|------------------|----------------------------------|
| Molecular Weight | Average Molecular Weight: 372.45 |
|------------------|----------------------------------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/substrate/ac-phe-thiaphe-oh/60627>