

## Product Data Sheet

Product Name: WYneC  
Cat. No.: GC91968

### Chemical Properties

Cas. No. 74763-44-3

Chemical Name 1-(triphenylphosphoranylidene)-5-hexyn-2-one

SMILES O=C(CCC#C)C=P(C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3

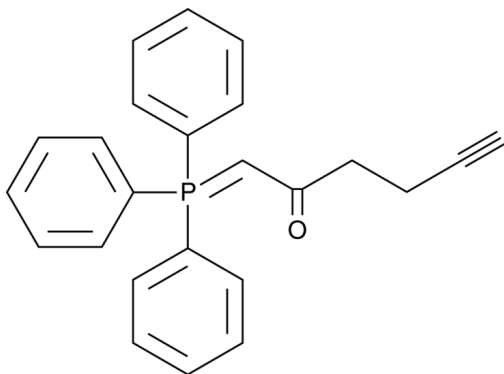
Formula  $C_{24}H_{21}OP$  M.Wt 356.4

Solubility DMSO: Sparingly soluble: 1-10 mg/ml, Ethanol: Sparingly soluble: 1-10 mg/ml  
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

WYneC is a chemoselective probe for the detection of sulfenylated proteins in live cells.<sup>1,2</sup> It is selective for a sulfenylated dipeptide over sulfinic acid- or sulfonic acid-containing dipeptides, reduced glutathione (GSH), glutathione disulfide (GSSG), and S-nitrosoglutathione (GSNO), as well as cysteine sulfinic acid and glutathione sulfonic acid, in cell-free assays.<sup>1</sup> WYneC also selectively

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

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binds to C64,82S glutathione peroxidase 3 (GPX3) containing a sulfenic acid at Cys36 over C64,82S GPX3 containing a reduced thiol, sulfenic acid at Cys36, or an intramolecular disulfide bond in cell-free assays. It binds to sulfenylated proteins in live cells and can then be conjugated to azide-containing fluorescent probes for detection.

### References:

- [1]. Shi, Y., Fu, L., Yang, J., et al. Wittig reagents for chemoselective sulfenic acid ligation enables global site stoichiometry analysis and redox-controlled mitochondrial targeting *Nat. Chem.* 13(11)1140-1150(2021).
- [2]. He, J.-X., Fei, Z.-C., Fu, L., et al. A modification-centric assessment tool for the performance of chemoproteomic probes *Nat. Chem. Biol.* 18(8)904-912(2022).

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