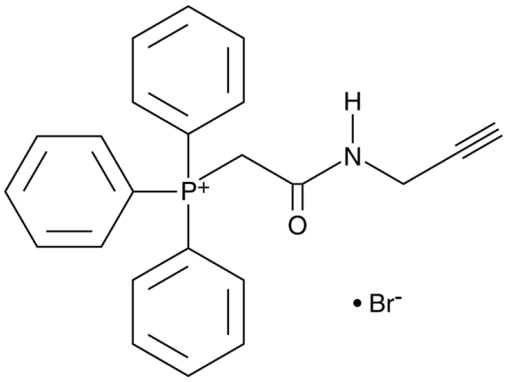
Product Data Sheet

Product Name: WYneN
Cat. No.: GC92015

Chemical Properties

Cas. No.	3052492-38-0		
Chemical Name	[2-oxo-2-(2-propyn-1-ylamino)ethyl]triphenyl-phosphonium, monobromide		
SMILES	O=C(NCC#C)C[P+](C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3.[Br-]		
Formula	$C_{23}H_{21}NOP$? Br	M.Wt	438.3
Solubility	DMSO: 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

WYneN is a chemoselective probe for the detection of sulfenylated proteins in live cells. [1] It is selective for sulfenylated proteins over 5,5′-dithiobis-(2-nitrobenzoic acid) (DTNB) and 4,4′-dipyridyl disulfide (4-DPS). WYneN binds to sulfenylated proteins in live cells and can then be conjugated to azide-containing fluorescent probes for detection.

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[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 targetingNat. Chem.13(11)1140-1150(2021).