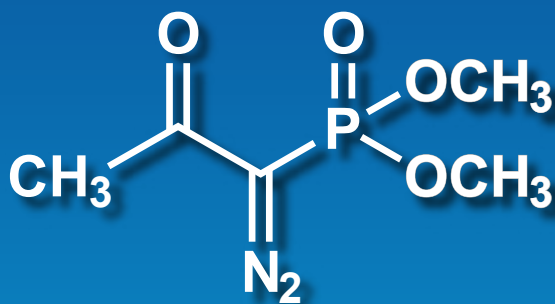


Reagent for the Synthesis of Terminal Alkynes (Ohira-Bestmann Reagent)



**Dimethyl (1-Diazo-2-oxopropyl)-
phosphonate
(= Ohira-Bestmann Reagent)**

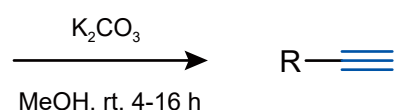
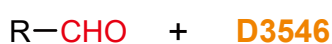
1g / 5g
[D3546]

Advantage

Enables Direct Conversion of Aldehydes into Terminal Alkynes under Mild Conditions

Ohira and Bestmann *et al.* have reported an efficient method for the synthesis of terminal alkynes using dimethyl (1-diazo-2-oxopropyl)phosphonate [D3546].^{1,2)} According to their reports, D3546 reacts with aldehydes in the presence of potassium carbonate and methanol to give terminal alkynes in high yield. D3546 is widely known as the Ohira-Bestmann reagent after its discoverers, and it is widely used in various fields as a powerful reagent for preparing terminal alkynes.

Application



R-CHO	Product	Yield (%)
		97
		74
		80

References 1) S. Ohira, *Synth. Commun.* **1989**, 19, 561. <https://doi.org/10.1080/00397918908050700>
2) S. Müller, B. Liepold, G. J. Roth, H. J. Bestmann, *Synlett* **1996**, 521. <https://doi.org/10.1055/s-1996-5474>

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