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COMU®

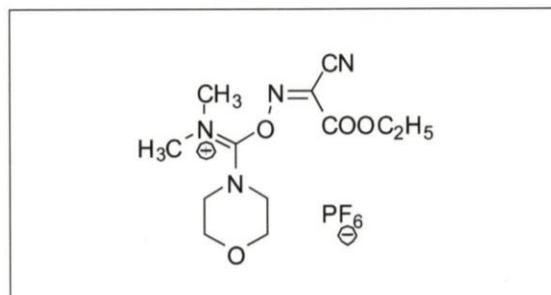
▶ Safe and Efficient Coupling Reagent for Peptide Synthesis

◆ Valid Patent

● CAS: 1075198-30-9

◆ Synonym:

(1-Cyano-2-ethoxy-2-oxoethylideneaminoxy)dimethylamino-morpholino-carbenium hexafluorophosphate



◆ Features and Advantages:

- Comparable coupling efficiency to HOAt derivatives
- Safe (LD50 = 2000 mg/kg)
- Excellent solubility and stability in DMF and NMP
- Low risk of explosion
- Low potential for causing allergic reactions
- COMU enhances the coupling
- Reduce the racemization in comparison with HBTU, HCTU, and similar reagents
- Excellent reagent for coupling of N-protected amino acids to afford the corresponding Weinreb amides
- Suitable for solution phase & solid phase peptide synthesis
- Reaction monitoring by color change starts as a yellow solution and requires an orange upon the reaction completion
- Easy removal of water-soluble by-products
- Compatibility with microwave-assisted SPPS
- Compatible with DMC, EtOAc, and 2-MeTHF environment friendly solvents

◆ Ref:

- R. Subirós-Funosas, R. Prohens, R. Barbas, A. El-Faham, F. Albericio, Chem.– Eur. J., 2009, 15, 9394-9403.
- 2.A. El-Faham, R. S. Funosas, R. Prohens, F. Albericio, Chem.– Eur. J., 2009, 15, 9404-9416.
- A. El-Faham, F. Albericio, J. Pept. Sci., 2010, 16, 6-9.
- R. Subiros-Funosas, S. N. Khattab, L. Nieto-Rodriguez, A. El-Faham, F. Albericio, Aldrichim. Acta, 2013, 46, 21-40.
- E. Tyrrell, P. Brawn, M. Carew, I. Greenwood, Tet. Lett., 2011, 52 369–372
- R. Subiros-Funosas, G. A. Acosta, A. El-Faham, F. Albericio, Tet. Lett., 2009, 50, 6200–6202
- D. S. MacMillan, J. Murray, H. F. Sneddon, C. Jamiesona, A. J. B. Watson, Green Chem., 2013, 15, 596

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PyOxim®

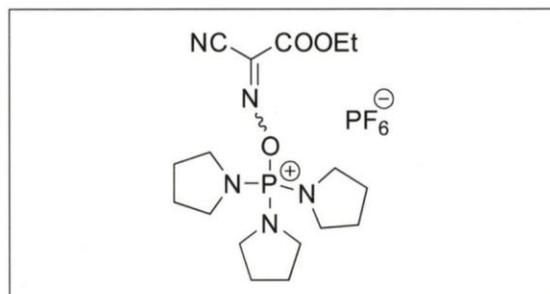
▶ A New Oxyma-based Phosphonium Salt

◆ Patent under P.C.T.

● CAS: 153433-21-7

◆ Synonym:

[Ethyl cyano(hydroxyimino)acetato-O²⁻]tri-1-pyrrolidinylphosphonium hexafluorophosphate



◆ Features and Advantages:

- Comparable coupling efficiency to PyOAP
- Excellent solubility
- Low racemization in linear and cyclic peptide models
- PyOxim giving rise to minimal amounts of des-Aib
- PyOxim shows a great conservation of chirality in the [3 + 3] synthesis of Z-Gly-Gly-Val-Pro-Gly-Gly-NH₂
- Displays an impressive performance in the coupling of NMe-amino acids and Aib residues
- Shows an outstanding efficiency in the manual SPPS elongation of Aib-Aib containing peptide H-Tyr-Aib-Aib-Phe-Leu-NH₂
- PyOxim shows higher stability in acetone and DMF than all benzotriazole counterparts

◆ Ref:

- R., Subirós-Funosas; A., El-Faham and F., Albericio Org. Biomol. Chem., 2010, 8, 3665-3673
- C.A. Chantell, M.A. Onaiyekan, M. Menakuru, J. Pept. Sci. 2012, 18, 88.
- R. Behrendt, A. Brünner, P. White, In Peptides: Building Bridges, Proceedings of the 22nd American Peptide Symposium, San Diego, CA, June 25-30, 2011; Lebl, M., Ed.; American Peptide Society: San Diego, CA, 2011; pp 12-13