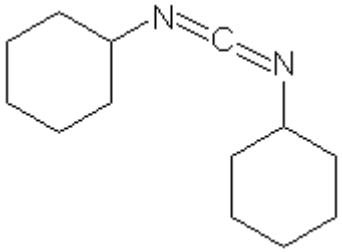
FT-01202A

DCC

Coupling agent for peptide synthesis

Product Description

Catalog #: 01202A
Name: **N, N-Dicyclohexylcarbodiimide (DCC)**
Bis(cyclohexyl)carbodiimide
Molecular Weight : MW: 206.32 g.mol^{-1}
CAS: [538-75-0] ; $C_{13}H_{22}N_2$



Storage: Room temperature
Caution **Highly toxic.**
Corrosive material

Regulatory Information

R22- Harmful if swallowed.
R24- Toxic in contact with skin.
R41- Risk of serious damage to eyes.
R43- May cause sensitization by skin contact.
S1/2- Keep locked up and out of the reach of children.
S24- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39- Wear suitable gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Introduction

One of the most frequently used technique for carbodiimide-mediated peptide coupling. Carbodiimides do not require prior activation of the carboxylic acid. Dicyclohexylcarbodiimide (DCC) has been predominantly used. Since the generated urea derivatives as byproducts often have similar solubilities as the desired peptides, water-soluble carbodiimides have been developed whose corresponding ureas are readily separated by extraction with water.

Guidelines for use

Protocol may be found in the litterature

References

- **Goyon V**. *et al*., Yeast cells depleted in Atp14p fail to assemble Atp6p within the ATP synthase and exhibit altered mitochondrial cristae morphology, *J. Biol. Chem*., 10.1074/jbc.M800204200 (2008) Article
- **Gregory S**. *et al.,* A Quantitative Model for the All-or-None Permeabilization of Phospholipid Vesicles by the Antimicrobial Peptide Cecropin A, *Biophys. J*., 94: 1667 - 1680 (2008)
- **Ishizuka T**. *at a*l., Chiral introduction of positive charges to PNA for double-duplex invasion to versatile sequences, *Nucleic Acids Res*., 36: 1464 - 1471 (2008) Article
- **Seedorf H**. *et al*., The genome of *Clostridium kluyveri*, a strict anaerobe with unique metabolic features, *PNAS* vol. 105, no. 6:2128-2133 (2008) Article

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