Europa Bioproducts Ltd

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NOC 7

Item#	Unit Size
N377-10	10 mg
N377-12	50 mg

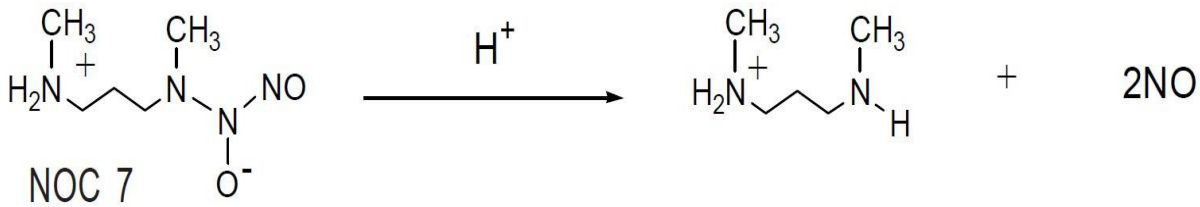
Chemical Name: 1-Hydroxy-2-oxo-3-(N-methyl-3-aminopropyl)-3-methyl-1-triazene
CAS: 146724-84-7
Appearance: white powder
Purity: ≥90% (HPLC)
MW: 162.19, $C_5H_{14}N_4O_2$

Storage Condition: -20°C, protect from light and moisture
Shipping Condition: with blue ice or dry ice

Product Description of NOC Compounds

NOCs are stable NO-amine complexes that spontaneously release NO, without cofactors, under physiological conditions. The rate of NO release depends on the chemical structure of NOC. The mechanism of spontaneous NO generation by NOCs is very simple compared to other classical NO donors, such as nitroglycerin and nitropurusside, and the by-products do not interfere with cell activities. A single NOC molecule releases two NO molecules (as indicated in the reaction scheme); the release rate of the second NO molecule is very slow. NOCs can be used to add controlled amounts of pure NO to experimental systems at controlled rates with minimal side effects. The amount of NO released can be easily manipulated by altering the concentration and selection of NOC reagents. Dojindo offers four different NOCs (NOC 5, 7, 12, and 18) with different halflifes. Stock solutions of NOC prepared in alkaline solutions, such as aqueous NaOH, are relatively stable. However,the NOC stock solution should be used within one day because it degrades about 5% per day, even at -20ºC. The release of NO begins immediately after adding the stock solution to a sample solution.

Reaction of NO release



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