



Certificate of Analysis

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Product Name: NB-caged Tyrosine hydrochloride Catalog No.: 6121 Batch No.: 1

CAS Number: 207727-86-4

IUPAC Name: O-[(2-Nitrophenyl)methyl]-L-tyrosine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆N₂O₅.HCl

Batch Molecular Weight: 352.77

Physical Appearance: White solid

Solubility: DMSO to 100 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 54.47 4.86 7.94 Found 54.36 4.85 7.97

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Product Information

Print Date: Jun 3rd 2019

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Product Name: NB-caged Tyrosine hydrochloride

CAS Number: 207727-86-4

IUPAC Name: O-[(2-Nitrophenyl)methyl]-L-tyrosine hydrochloride

Description:

L-Tyrosine caged with photosensitive ortho-nitrobenzyl side chain. Rapidly releases tyrosine when photolyzed (300-350 nm excitation). Is readily incorporated into E.coli proteins via inclusion in growth media.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₆N₂O₅.HCl

Batch Molecular Weight: 352.77 Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 6121

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wang et al (2019) Time-resolved protein activation by proximal decaging in living systems. Nature 569 509. PMID: 31068699.

Monk et al (2017) Rapid and inexpensive evaluation of nonstandard amino acid incorporation in *Escherichia coli*. ACS.Synth.Biol. **6** 45. PMID: 27648665.

Miller et al (1998) Flash decaging of tyrosine sidechains in an ion channel. Neuron. 20 619. PMID: 9581754.