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**Product Data Sheet**

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Product Name: NB-caged Tyrosine hydrochloride

Cat. No.: GC50349

**Chemical Properties**

Cas. No. 207727-86-4

SMILES N[C@H](C(O)=O)CC1=CC=C(C=C1)OCC2=C([N+])([O-])=O)C=CC=C2.ClFormula  $C_{16}H_{16}N_2O_5.HCl$  M.Wt 352.77

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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.

Miller et al (1998) Flash decaging of tyrosine sidechains in an ion channel. Neuron. 20 619 PMID:9581754 |Monk et al (2017) Rapid and inexpensive evaluation of nonstandard amino acid incorporation in Escherichia coli. ACS.Synth.Biol. 6 45 PMID:27648665 |Wang et al (2019) Time-resolved protein activation by proximal decaging in living systems. Nature 569 509 PMID:31068699

**Caution: Product has not been fully validated for medical applications. For research use only.**

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