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**Product Data Sheet**

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Product Name: DMNB-caged-Serine

Cat. No.: GC50420

**Chemical Properties**

Cas. No. 780009-55-4

SMILES COC1=CC(COC[C@@H](C(O)=O)N)=C([N+])([O-])=O)C=C1OCFormula  $C_{12}H_{16}N_2O_7$  M.Wt 300.26

Solubility DMSO : 250 mg/mL (832.61 mM; Need ultrasonic) 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**

DMNB-caged serine. Photoactivated to release serine by visible blue light (405 nm) in cells. Incorporated into *S.cerevisiae* proteins when introduced into growth medium at millimolar concentrations.

Lemke et al (2007) Control of protein phosphorylation with a genetically encoded photocaged amino acid. *Nat.Chem.Biol.* 3 769 PMID:17965709

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

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