Product Name: NPE-caged-proton
CAS Number: 1186195-63-0
IUPAC Name: 1-(2-Nitrophenyl)ethyl sulfate sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₆NNaO₆S.H₂O
Batch Molecular Weight: 287.23
Physical Appearance: Off White solid
Solubility:
  - water to 100 mM
  - DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
<td>4.88</td>
<td>4.89</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

Product Name: NPE-caged-proton
Catalog No.: 3512
Batch No.: 2

CAS Number: 1186195-63-0
IUPAC Name: 1-(2-Nitrophenyl)ethyl sulfate sodium salt

Description:
1-(2-nitrophenyl)ethyl caged proton that releases a proton and a sulfate ion upon photolysis. Generates rapid acidifications down to pH 2 (pH jumps).

Physical and Chemical Properties:
- Batch Molecular Formula: C_9H_8NNaO_4S.H_2O
- Batch Molecular Weight: 287.23
- Physical Appearance: Off White solid
- Minimum Purity: >98%

Storage: Store at -20°C. This product is packaged under an inert atmosphere.
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 mM
CAUTION: This compound is hygroscopic and has been packed under inert atmosphere.

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: