Product Name: Niflumic acid
Catalog No.: 4112
Batch No.: 1
CAS Number: 4394-00-7
EC Number: 224-516-2
IUPAC Name: 2-[3-(Trifluoromethyl)anilino]nicotinic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{13}\text{H}_9\text{F}_3\text{N}_2\text{O}_2 \)
Batch Molecular Weight: 282.22
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
\( ^1\text{H} \text{NMR} \): Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>55.33</td>
<td>3.27</td>
<td>9.93</td>
</tr>
<tr>
<td>Found</td>
<td>55.52</td>
<td>3.27</td>
<td>9.83</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Niflumic acid  
**Catalog No.:** 4112  
**EC Number:** 224-516-2  
**Batch No.:** 1  
**CAS Number:** 4394-00-7

**IUPAC Name:** 2-[3-(Trifluoromethyl)anilino]nicotinic acid

**Description:**  
Nonsteroidal anti-inflammatory drug (NSAID); selectively inhibits COX-2. Also activates human TRPA1 inducibly expressed in HEK293 cells; displays agonist activity at GPR35.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{13}H_{12}F_{3}N_{2}O_{2}
- **Batch Molecular Weight:** 282.22
- **Physical Appearance:** Pale yellow solid

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol 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:**