Product Name: Diclofenac sodium salt
Catalog No.: 4454
Batch No.: 1
CAS Number: 15307-79-6
EC Number: 239-346-4
IUPAC Name: 2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: \( C_{14}H_{10}Cl_2NNaO_2 \)
   - Batch Molecular Weight: 318.13
   - Physical Appearance: White solid
   - Solubility:
     - water to 50 mM
     - DMSO to 100 mM
     - ethanol to 100 mM
   - Storage: Store at RT

2. ANALYTICAL DATA
   - HPLC: Shows 100% purity
   - \(^1^H\) NMR: Consistent with structure
   - Mass Spectrum: Consistent with structure
   - Microanalysis:
     - Carbon
     - Hydrogen
     - Nitrogen
     - Theoretical: 52.86, 3.17, 4.4
     - Found: 52.87, 3.19, 4.38
Product Information

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Description:
Nonsteroidal, anti-inflammatory drug (NSAID); inhibits COX-1 and COX-2 (IC₅₀ values are 0.075 μM for COX-1 and 0.038 μM for COX-2 in human whole blood assay).

Physical and Chemical Properties:
Batch Molecular Formula: C₁₄H₁₀Cl₂NNaO₂
Batch Molecular Weight: 318.13
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
Water to 50 mM
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: