Product Name: (R)-DPN
Catalog No.: 4494
Batch No.: 1

CAS Number: 524047-78-7
IUPAC Name: (R)-2,3-bis(4-Hydroxyphenyl)-propionitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C₁₅H₁₃NO₂
**Batch Molecular Weight:** 239.27
**Physical Appearance:** White solid
**Solubility:**
1eq. NaOH to 25 mM
DMSO to 100 mM
ethanol to 100 mM
**Storage:** Store at -20°C
**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:**
R<sub>f</sub> = 0.3 (Dichloromethane:Ethyl acetate:Petrol [3:2:5])
**HPLC:**
Shows 100% purity
**Chiral HPLC:**
Shows >98.9% purity
**<sup>1</sup>H NMR:**
Consistent with structure
**Mass Spectrum:**
Consistent with structure
**Optical Rotation:**
[α]<sub>D</sub> = -9.2 (Concentration = 1.1, Solvent = Methanol)
**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>75.3</td>
<td>5.48</td>
<td>5.85</td>
</tr>
<tr>
<td>Found</td>
<td>75.13</td>
<td>5.53</td>
<td>5.97</td>
</tr>
</tbody>
</table>

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

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Catalog No.: 4494  Batch No.: 1

CAS Number: 524047-78-7
IUPAC Name: (R)-2,3-bis(4-Hydroxyphenyl)-propionitrile

Description:
Enantiomer of DPN (Cat. No. 1494). Displays higher affinity for estrogen receptor (ER) β over ERα (Kᵣ values are 1.82 and 147 nM respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C₁₅H₁₃NO₂
Batch Molecular Weight: 239.27
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at -20°C

Solubility & Usage Info:
1eq. NaOH to 25 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: