1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>( \text{C}<em>{11}\text{H}</em>{14}\text{N}<em>{5}\text{Na}</em>{3}\text{O}<em>{10}\text{P}</em>{2}\text{S} )</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>539.24</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Colourless solution</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water (supplied pre-dissolved at a concentration of 10mM)</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20°C</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>Shows 98.4% purity</td>
</tr>
<tr>
<td>Mass Spectrum</td>
<td>Consistent with structure</td>
</tr>
</tbody>
</table>
Product Information

Product Name: 2-Methylthioadenosine diphosphate trisodium salt
Catalog No.: 1624  Batch No.: 10

Description:
Potent purinergic agonist displaying selectivity for P2Y1, P2Y12, P2Y13 receptors (pEC50 = 8.29 and 9.05 for P2Y1 and P2Y12, EC50 = 19 nM for P2Y13). Induces aggregation of, and inhibits cAMP accumulation in, platelets in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C10H14N9Na3O10P3S
Batch Molecular Weight: 539.24
Physical Appearance: Colourless solution
Minimum Purity: >98%

Storage:
Store at -20°C

Solubility & Usage Info:
Soluble in water (supplied pre-dissolved at a concentration of 10mM)
This product is supplied dissolved in water at a concentration of 10mM

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: