1. What is a Tocriset™?

A Tocriset™ is a ligand set designed with you, the Life Science Researcher, in mind. A Tocriset™ provides a convenient and user-friendly experimental aid by presenting you with a choice of high purity, miniaturised catalogue ligands as lyophilised solids or, where necessary, ligands pre-dissolved in DMSO. By following simple solubility instructions, the compounds can be diluted with ease and are ready for use in your experiments enabling you to investigate the binding properties of a cell surface receptor or to evaluate the properties of a signal transduction pathway.

2. What does my Tocriset™ contain?

The Phosphodiesterase Inhibitor Tocriset™ (Cat. No. 1881) contains the following compounds:

- Cilostamide; selective inhibitor of PDE3
- Milrinone; potent inhibitor of PDE3
- Ro 20-1724, widely used inhibitor, selective for PDE4
- (R)-(-)-Rolipram; selective inhibitor of PDE4
- Zardaverine; selective inhibitor of PDE3 and PDE4

Product information, including biological description and references for each compound, can be found in the product descriptions overleaf.

3. What are the storage conditions for my Tocriset™?

Information concerning product stability, particularly in solution, has rarely been reported and, in most cases, Tocris can only offer a general guide. The compounds in this Tocriset™ are supplied pre-dissolved as DMSO stock solutions and can be stored for up to 6 months provided that the vial remains unopened. Compound solubility in DMSO is sometimes not uniform and the customer is advised to re-suspend compounds that may settle prior to transfer. Tocris recommends that the stock solutions are stored as aliquots in tightly sealed vials at -20°C. Wherever possible, working solutions should be made up and used on the same day. Before use, and prior to opening a vial, it is recommended that the product be allowed to equilibrate to room temperature for at least 60 minutes.

4. What is the purity of the products in my Tocriset™?

Tocriset™ products are of high purity, typically >98%. Each product in this Tocriset™ has an individual batch number (Section 6), and purity data relating to the batch number can be found on the Tocris website, www.tocris.com.

5. How do I dissolve the products in my Tocriset™?

This Tocriset™ contains high purity ligands that have been pre-dissolved to a convenient stock concentration of 10 mM in 0.5 ml of DMSO. The stock solutions can be diluted for instant use in your experiments.

The solubility data provided is accurate to the best of Tocris’ knowledge.

6. Tocriset™ Product Specifications

Phosphodiesterase Inhibitor Tocriset™ (Cat. No. 1881) Tocriset™ Batch No: 2

<table>
<thead>
<tr>
<th>Product</th>
<th>Cat. No.</th>
<th>Batch No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cilostamide</td>
<td>0915</td>
<td>2B</td>
</tr>
<tr>
<td>Milrinone</td>
<td>1504</td>
<td>1A</td>
</tr>
<tr>
<td>Ro 20-1724</td>
<td>9415</td>
<td>3A</td>
</tr>
<tr>
<td>(R)-(-)-Rolipram</td>
<td>1340</td>
<td>10A</td>
</tr>
<tr>
<td>Zardaverine</td>
<td>1046</td>
<td>3A</td>
</tr>
</tbody>
</table>

The products included in this Tocriset™ are also available in larger quantities and details can be found on the Tocris website, www.tocris.com. If you require any more technical information about this Tocriset™, please contact Technical Support (Section 7).

If you have any comments or suggestions about this Tocriset™ or the Tocriset™ product range, please do not hesitate to contact the Tocris Customers Service Department:

Europe and Rest of the World
customerservice@tocris.co.uk

United States
customerservice@tocrisusa.com

7. Tocris Technical Support Information

United Kingdom
Tel: + 44 (0)117 916 3333
Fax: + 44 (0)117 916 3344
E-mail: technicalsupport@tocris.co.uk

United States
Tel: (800) 421-3701/(636) 207-7083
Fax: (636) 207-7083
E-mail: technicalsupport@tocrisusa.com
8. Tocriset Product Information

9. Material Safety Data Sheet (MSDS) Information

The following information is applicable to the products in this Tocriset™:

I. HAZARDS IDENTIFICATION

To the best of our knowledge, the toxicological properties have not been fully investigated. May be harmful if inhaled, swallowed or absorbed through skin. All research chemicals should be regarded as potentially neurotoxic and must be handled with extreme care.

II. FIRST-AID MEASURES

In all cases, of exposure, OBTAIN MEDICAL ADVICE IMMEDIATELY.

In case of CONTACT:

Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reaping. In case of eye contact, flush with copious amounts of water for at least 15 minutes.

In case of INHALATION:

Remove victim to fresh air and loosen clothing. If breathing becomes difficult give oxygen. If breathing stops, give artificial respiration.

In case of INGESTION:

If swallowed, rinse mouth out with water and call a physician.

III. FIRE-FIGHTING MEASURES/ACCIDENTAL RELEASE MEASURES

Extinguishing Media: Material is non-combustible. Use extinguishing media appropriate to surrounding conditions.

Unusual Fire and Explosive Hazards: Material is non-combustible.

Special Fire-Fighting Procedures: Use protective clothing to prevent contact with skin and eyes.

Water protection clothing to prevent contact with skin and eyes. Snows up solid and place in an appropriate container. Avoid raising dust. Avoid for appropriate disposal as described under Section V. Decontaminate spill site with 10% acetic solution and ventilate area after pick-up is complete.

IV. HANDLING AND STORAGE/EXPOSURE CONTROL/PERSONAL PROTECTION

When appropriate protective clothing and face wear to prevent contact with skin and eyes. Use only in a chemical fume hood, with air supplied by an independent system. Store in a cool, dry, dark, well-ventilated area out of direct sunlight. Laboratory equipment to handle solid is used, and must be vented to the exhaust. Wear protective clothing and an eye-wash station. Avoid prolonged or repeated exposure. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

V. STABILITY AND REACTIVITY

Stability: Stable under normal handling conditions.

Hazardous Combustion: May emit toxic gases such as carbon dioxide, carbon monoxide and nitrogen oxides upon thermal decomposition.

VI. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated. May be harmful if inhaled, swallowed or absorbed through skin. All research chemicals should be regarded as potentially neurotoxic and must be handled with extreme care.

BTECS: May exist for some products supplied in the Tocriset™.

Toxicity Data: May exist for some products supplied in the Tocriset™.

VII. DISPOSAL CONDITIONS/ECOLOGICAL INFORMATION

As a country, federal, state and local environment regulations are varied and change frequently, we recommend that you contact your local Department for Health Services for information on the disposal of products in this Tocriset™. Treat as potentially toxic if released into the environment.

VIII. TRANSPORT CONDITIONS

Products contained in this Tocriset™ are believed safe for transport.

IX. REGULATORY INFORMATION

Classification: Substance not yet fully tested; treat as toxic.

Factsheet: 1/M - Inhaling to eyes, respiratory system and skin.

Safety Phrases: S22 – Do not breathe dust.

S40 – Avoid contact with skin and eyes.

S41 – In case of accident if you feel unwell, seek medical advice immediately (show the label where possible).

X. OTHER INFORMATION

Material should be handled by qualified experienced professionals only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. The user should follow local and national safety legislation. The absence of warning must not, under any circumstances, be taken to mean that hazard exists. Further MSDS information on individual products contained within the Tocriset™ are available from the Tocris website, www.tocris.com, or via Tocris Technical Support (see Section 7).