**Indirubin**  
*AhR agonist*  
Catalog Code: tlrl-indb

https://www.invivogen.com/indirubin  
*For research use only*  
Version 19E07-NJ

## PRODUCT INFORMATION

**Contents**
- 10 mg Indirubin

**Storage and stability**
- Indirubin is provided as a powder and shipped at room temperature. Upon receipt, store product at -20°C.
- Upon resuspension, prepare aliquots and store at -20°C. Resuspended product is stable for at least 1 month when properly stored at -20°C. Avoid repeated freeze-thaw cycles.
- We recommend to protect this product from light.

**Quality control**
- Purity >95% (HPLC)
- Absence of bacterial contamination (e.g. lipoproteins and endotoxins) has been confirmed using HEK-Blue™ hTLR2 and HEK-Blue™ hTLR4 cells.
- Biological activity has been validated using cellular assays.

## CHEMICAL PROPERTIES

**CAS Number:** 479-41-4  
**Synonym:** 2-(2-oxo-1H-indol-3-ylidene)-1H-indol-3-one  
**Formula:** C16H10N2O2  
**Molecular weight:** 262.26 g/mol  
**Solubility:** 10 mg/ml in DMSO

## METHODS

**Preparation of 5mM stock solution**
1. Add 7.7 ml of DMSO to 10 mg of indirubin. Mix by vortexing.
2. Use immediately or store aliquots at -20 °C.
3. Prepare future dilutions using DMEM or EMEM

**Working concentration range:** 25 - 100 µM for cell culture assays

## AhR activation assay

**Described below is a protocol to study AhR activation in HepG2-Lucia™ AhR cells which derive from the human HepG2 hepatoma cell line. These cells report AhR activation through the monitoring of human Cyp1a1-induced Lucia luciferase activity.**

**For more information, visit** https://www.invivogen.com/hepg2-lucia-ahr.

1. Add 20 µl of indirubin at 100 µM (final concentration) per well of a flat-bottom 96-well plate.  
**Note:** we recommend to include a control dilution of DMSO in your assay.
2. Add 180 µl of cell suspension (~20,000 cells) per well.
3. Incubate the plate at 37 °C in a 5% CO2 incubator for 18-24 hours.
4. Monitor Lucia luciferase reporter protein production using a luciferase detection reagent, such as QUANTI-Luc™.

## RELATED PRODUCTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Cat. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH-223191</td>
<td>AhR inhibitor</td>
<td>inh-ch22</td>
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<tr>
<td>FICZ</td>
<td>AhR ligand</td>
<td>tlrl-ficz</td>
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<tr>
<td>HepG2-Lucia™ AhR Cells</td>
<td>AhR hepatocytic reporter cells</td>
<td>hpgl-ahr</td>
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<tr>
<td>HT29-Lucia™ AhR Cells</td>
<td>AhR colon cancer reporter cells</td>
<td>ht2l-ahr</td>
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<tr>
<td>ITE</td>
<td>AhR ligand</td>
<td>tlrl-ite</td>
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<td>L-Kynurenine</td>
<td>AhR ligand</td>
<td>tlrl-kyn</td>
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<tr>
<td>QUANTI-Luc™</td>
<td>Lucia detection medium</td>
<td>rep-qlc1</td>
</tr>
</tbody>
</table>