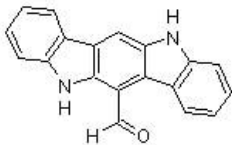


Product datasheet

6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand ab141631

2 References 2 Images

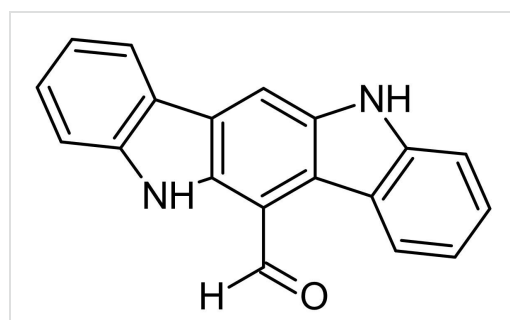
Overview

<b>Product name</b>	6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand
<b>Description</b>	High affinity aryl hydrocarbon receptor ligand
<b>Biological description</b>	High affinity aryl hydrocarbon receptor ligand. Proposed endogenous AhR ligand.
<b>Purity</b>	> 95%
<b>CAS Number</b>	172922-91-7
<b>Chemical structure</b>	

Properties

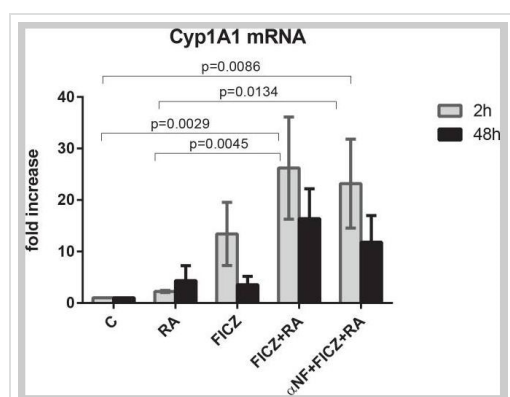
<b>Chemical name</b>	5,11-Dihydroindolo[3,2- <i>b</i> ]carbazole-12-carbaldehyde
<b>Molecular weight</b>	284.30
<b>Molecular formula</b>	C <sub>19</sub> H <sub>12</sub> N <sub>2</sub> O
<b>PubChem identifier</b>	1863
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 25 mM
<b>Handling</b>	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>SMILES</b>	C1=CC=C2C(=C1)C3=CC4=C(C5=CC=CC=C5N4)C(=C3N2)C=O
<b>Source</b>	Synthetic

## Images



Chemical Structure - 6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand (ab141631)

2D chemical structure image of ab141631, 6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand



Functional Studies - 6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand (ab141631)

Bunaciu et al PLoS One. 2015; 10(8): e0135668.  
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### FICZ upregulates Cyp1A1 expression.

HL-60 cells were initiated in culture at  $0.1 \times 10^6$  cells/ml with  $1 \mu\text{M}$  RA,  $100 \text{ nM}$  FICZ,  $1 \mu\text{M}$   $\alpha$ -NF as indicated for 2 h and 48 h. At 2 h post treatment, FICZ upregulates Cyp1A1 expression in HL-60 cells, reaching significance for RA+FICZ vs C ( $p = 0.0029$ ) and vs RA ( $p = 0.0045$ ) and  $\alpha$ -NF+FICZ+RA vs C ( $p = 0.0086$ ) and vs RA ( $p = 0.0134$ ).

FICZ = 6-Formylindolo(3,2-b)carbazole, Aryl hydrocarbon receptor ligand.

(From Figure 4 of Bunaciu et al).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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