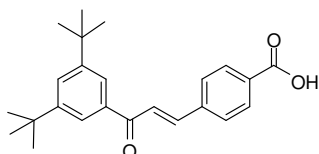




## Certificate of Analysis

**Axon Catalogue ID:** 1241 **Batch Number:** 2  
**Product Name:** CH 55  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 4-[(E)-3-(3,5-Di-tert-butyl-phenyl)-3-oxo-propenyl]-benzoic acid

**Structure:**



**Amount:**

**CAS number(s):** 110368-33-7  
**Molecular Formula:** C<sub>24</sub>H<sub>28</sub>O<sub>3</sub> **Molecular Weight:** 364.48  
**Batch Molecular Formula:** C<sub>24</sub>H<sub>28</sub>O<sub>3</sub> **Batch Molecular Weight:** 364.48  
**Appearance:** Pale-yellow solid **Observed mp:** 204.2 - 205.0 °C  
**TLC (R<sub>f</sub>):** 0.6 Hex/EtOAc (1:1)  
**Chemical Purity:** 99.8%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 79.09, H 7.74, N -; Found: C 79.02, H 7.81, N -  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	35.0	96.0	
	EtOH	35.0	96.0	

**Remarks:** Exposure to Retinoid acid receptor (RAR) agonists may cause serious skin irritation. Take proper precautions to avoid inhalation or skin contact.  
Suspected to be unstable in solution

**QC Date:** 22-01-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**