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Print Date: Jan 11th 2016

Certificate of Analysis

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Product Name: **AH 6809** **Catalog No.: 0671** **Batch No.: 4**

CAS Number: 33458-93-4

IUPAC Name: 6-Isopropoxy-9-xanthone-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{14}O_5$

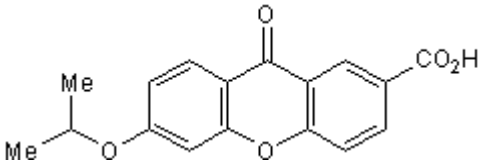
Batch Molecular Weight: 298.3

Physical Appearance: White solid

Solubility: 1.1eq. NaOH to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.64 (Dichloromethane:Methanol:AcOH [95:4.5:0.5])

HPLC: Shows >98% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.45	4.73	
Found	68.33	4.68	0.05

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CAS Number: 33458-93-4

IUPAC Name: 6-Isopropoxy-9-xanthone-2-carboxylic acid

Description:

Antagonist at prostaglandin EP_1 (pA_2 = 6.8) and EP_2 (K_i = 350 nM) receptors. Also weakly inhibits DP receptors (pA_2 = 4.45).

Physical and Chemical Properties:

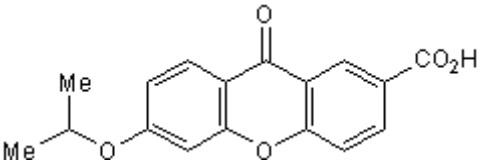
Batch Molecular Formula: $C_{17}H_{14}O_5$

Batch Molecular Weight: 298.3

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1.1eq. NaOH to 100 mM
DMSO to 100 mM

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:

Coleman *et al* (1985) AH6809, a prostanoid EP_1-receptor blocking drug. Br.J.Pharmacol. ***85*** 273P.

Keery and Lumley (1988) AH 6809, a prostaglandin DP-receptor blocking drug on human platelets. Br.J.Pharmacol. ***94*** 745. PMID: 2460179.

Kiriyama *et al* (1997) Ligand binding specificities of the eight types and subtypes of the mouse prostanoid receptors expressed in Chinese hamster ovary cells. Br.J.Pharmacol. ***122*** 217. PMID: 9313928.

van der Merwe *et al* (2009) Prostaglandin E_2 derived from cyclooxygenases 1 and 2 mediates intestinal epithelial ion transport stimulated by the activation of protease-activated receptor 2. J.Pharmacol.Exp.Ther. ***329*** 747. PMID: 19190238.