

Certificate of Analysis

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Product Name: TC AQP1 1

Catalog No.: 5412

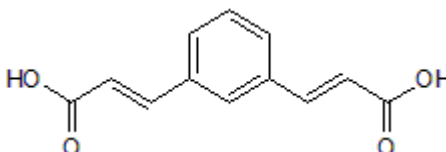
Batch No.: 1

CAS Number: 37710-81-9

IUPAC Name: 3,3'-(1,3-Phenylene)bis(2-propenoic acid)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₀O₄
Batch Molecular Weight: 218.211
Physical Appearance: White solid
Solubility: DMSO to 100 mM
1eq. NaOH to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.05	4.62	
Found	65.95	4.6	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Aquaporin 1 (AQP1) channel blocker ($IC_{50} = 8 \mu M$). Inhibits water flux in *Xenopus* oocytes.

Physical and Chemical Properties:

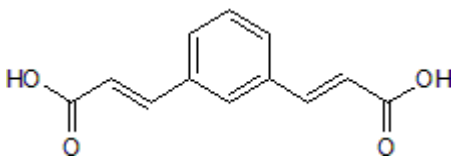
Batch Molecular Formula: $C_{12}H_{10}O_4$

Batch Molecular Weight: 218.211

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

1eq. NaOH to 20 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:

Seeliger et al (2013) Discovery of novel human aquaporin-1 blockers. *ACS Chem.Biol.* **8** 249. PMID: 23113556.

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