

**Product Name:** ASB 14780

**Catalog No.:** 6316

**Batch No.:** 1

CAS Number: 1069046-00-9

IUPAC Name: 3-(3-Phenethyl-1-(4-phenoxyphenyl)-1*H*-indol-5-yl)propanoic acid tris salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>31</sub>H<sub>27</sub>NO<sub>3</sub>.C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>

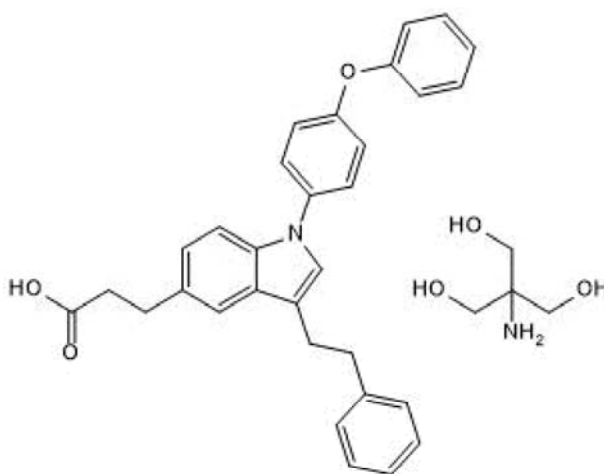
**Batch Molecular Weight:** 582.7

**Physical Appearance:** Pale orange solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.14	6.57	4.81
Found	72.13	6.61	4.92

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

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**Description:**

Potent and selective cytosolic phospholipase A<sub>2</sub> alpha (cPLA<sub>2</sub>α) inhibitor (IC<sub>50</sub> = 20 nM). Selective for cPLA<sub>2</sub>α over secreted PLA<sub>2</sub>α (sPLA<sub>2</sub>α; exhibits no inhibition at 10 μM). Inhibits cPLA<sub>2</sub>α-dependent inflammatory responses in vitro in guinea pig and human whole-blood assays. Improves diet-induced liver injury and CCl<sub>4</sub>-induced hepatic fibrosis in vivo. Orally bioavailable.

**Physical and Chemical Properties:**

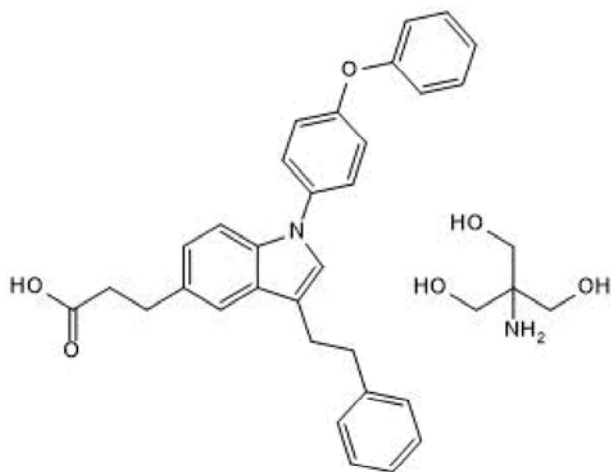
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Batch Molecular Weight: 582.7

Physical Appearance: Pale orange solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

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:**

**Kanai et al** (2016) ASB14780, an orally active inhibitor of group IVA phospholipase A<sub>2</sub>, is a pharmacotherapeutic candidate for nonalcoholic fatty liver disease. *J.Pharmacol.Exp.Ther.* **356** 604. PMID: 26699145.

**Tomoo et al** (2014) Design, synthesis, and biological evaluation of 3-(1-aryl-1*H*-indol-5-yl)propanoic acids as new indole-based cytosolic phospholipase A<sub>2</sub>α. *J.Med.Chem.* **57** 7244. PMID: 25102418.

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