Print Date: Feb 21st 2019

Certificate of Analysis

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Product Name: **CBA** **Catalog No.: 6724** **Batch No.: 1**

CAS Number: 351424-20-9

IUPAC Name: 4-Chloro-2-[[2-(2-chlorophenoxy)acetyl]amino]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{11}Cl_2NO_4$

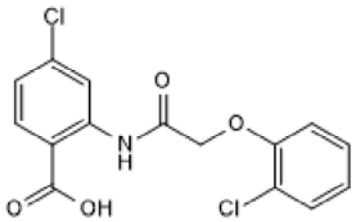
Batch Molecular Weight: 340.16

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.96	3.26	4.12
Found	52.76	3.19	4.16

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Product Information

Product Name: **CBA** **Catalog No.: 6724** **Batch No.: 1**

CAS Number: 351424-20-9

IUPAC Name: 4-Chloro-2-[[2-(2-chlorophenoxy)acetyl]amino]benzoic acid

Description:

Selective TRPM4 blocker (IC_{50} = 1.5 µM). Exhibits no significant activity against TRPM5, TRPM7, TRPM8, TRPV1, TRPV3, TRPV6 and a range of other ion channels and receptors. Displays neuroprotective effects against glutamate-induced neurodegeneration in vitro.

Physical and Chemical Properties:

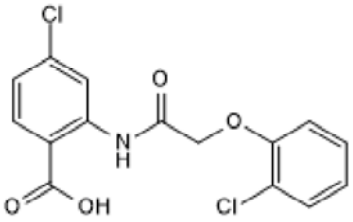
Batch Molecular Formula: $C_{15}H_{11}Cl_2NO_4$

Batch Molecular Weight: 340.16

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Bianchi *et al* (2018) The ion channel TRPM4 in murine experimental autoimmune encephalomyelitis and in a model of glutamate-induced neuronal degeneration. Mol.Brain. ***11*** 41. PMID: 29996905.

Ozhathil *et al* (2018) Identification of potent and selective small molecule inhibitors of the cation channel TRPM4. Br.J.Pharmacol. ***175*** 2504. PMID: 29579323.

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