

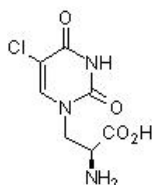
Product datasheet

(S)-5-Chlorowillardiine, AMPA / kainate agonist  
ab120062

1 References 1 Image

Overview

<b>Product name</b>	(S)-5-Chlorowillardiine, AMPA / kainate agonist
<b>Description</b>	AMPA / kainate agonist
<b>Biological description</b>	Potent AMPA / kainate receptor agonist
<b>Purity</b>	> 98%
<b>Chemical structure</b>	



Properties

<b>Chemical name</b>	(S)-2-Amino-3-(5-chloro-3,4-dihydro-2,4-dioxypyrimidin-1(2H)-yl)propanoic acid
<b>Molecular weight</b>	233.61
<b>Molecular formula</b>	C <sub>7</sub> H <sub>8</sub> ClN <sub>3</sub> O <sub>4</sub>
<b>PubChem identifier</b>	44152410
<b>Storage instructions</b>	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in 1 eq. NaOH to 50 mM
<b>Handling</b>	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.  Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.
<b>SMILES</b>	<chem>N[C@@H](CN1C=C(Cl)C(=O)NC1=O)C(=O)O</chem>
<b>Source</b>	Synthetic

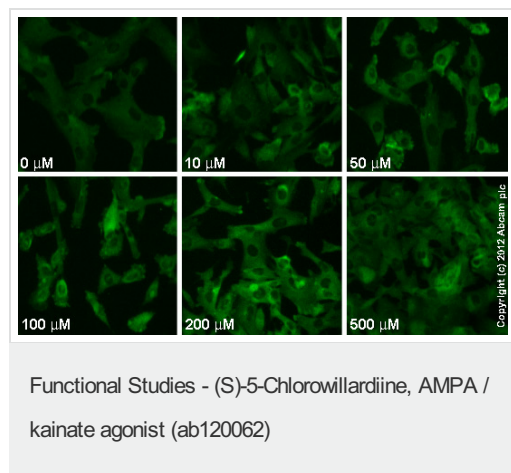
## Applications

Our [Abpromise guarantee](#) covers the use of **ab120062** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

## Images



[ab96379](#) staining MEK1 (phospho S298) in SK-N-SH cells treated with (S)-5-Chlorowillardiine (ab120062), by ICC/IF. Increase in MEK1 (phospho S298) expression correlates with increased concentration of (S)-5-Chlorowillardiine, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120062 ((S)-5-Chlorowillardiine) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with [ab96379](#) (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody ([ab96899](#)) at 1/250 dilution was used as the secondary antibody.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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