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## DATASHEET

E4CPG

### Product overview

|                          |                              |
|--------------------------|------------------------------|
| <b>Name</b>              | E4CPG                        |
| <b>Cat No</b>            | HB0268                       |
| <b>Biological action</b> | Antagonist                   |
| <b>Purity</b>            | >98%                         |
| <b>Description</b>       | Group I / II mGlu antagonist |

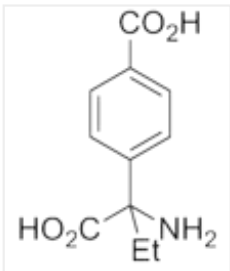
### Biological Data

|                               |                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Group I / II mGluR antagonist. Shows neuroprotective actions against glucocorticoid-mediated apoptosis. |
|-------------------------------|---------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | Room temperature                                                                                                             |
| <b>Solubility overview</b>  | Soluble in NaOH(aq) (100mM)                                                                                                  |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

### Chemical Data

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | ( <i>RS</i> )- $\alpha$ -Ethyl-4-carboxyphenylglycine                                            |
| <b>Molecular Weight</b>   | 223.23                                                                                           |
| <b>Chemical structure</b> |               |
| <b>Molecular Formula</b>  | C <sub>11</sub> H <sub>13</sub> NO <sub>4</sub>                                                  |
| <b>CAS Number</b>         | 170846-89-6                                                                                      |
| <b>PubChem identifier</b> | 3937355                                                                                          |
| <b>SMILES</b>             | NC(C(O)=O)(CC)C1=CC=C(C(=O)O)C=C1                                                                |
| <b>InChi</b>              | InChI=1S/C11H13NO4/c1-2-11(12,10(15)16)8-5-3-7(4-6-8)9(13)14/h3-6H,2,12H2,1H3,(H,13,14)(H,15,16) |
| <b>InChiKey</b>           | AIEFWRRHRHRLFT-UHFFFAOYSA-N                                                                      |
| <b>MDL number</b>         | MFCD01074798                                                                                     |

### References

Structure-activity relationships of new agonists and antagonists of different metabotropic glutamate receptor subtypes.

Sekiyama N *et al* (1996) Br J Pharmacol 117(7)

PubMedID

8730745

**Ionotropic and metabotropic glutamate receptor mediation of glucocorticoid-induced apoptosis in hippocampal cells and the neuroprotective role of synaptic N-methyl-D-aspartate receptors.**

Lu J *et al* (2003) Neuroscience 121(1)

PubMedID

12946705

**Structure-activity relationships for a series of phenylglycine derivatives acting at metabotropic glutamate receptors (mGluRs).**

Bedingfield JS *et al* (1995) Br J Pharmacol 116(8)

PubMedID

8719814

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