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| <b>Product Name</b>      | : L-Cysteic acid monohydrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | : 3-Sulfo-L-alanine Monohydrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cat No.</b>           | : M19861                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>CAS Number</b>        | : 23537-25-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Formula</b> | : C3H9NO6S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formula Weight</b>    | : 187.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chemical Name</b>     | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>       | L-Cysteic acid is an oxidation product of L-cysteine that may be used as a competitive inhibitor of the bacterial aspartate: alanine antiporter (AspT) exchange of aspartate and in other aspartate biological systems. L-Cysteic acid is used in monomeric surfactant development. L-Cysteic acid may be used in studies of excitatory amino acids in the brain such as those that bind to cysteine sulfinic acid receptors. It is a useful agonist at several rat metabotropic glutamate receptors (mGluRs). |
| <b>Pathway</b>           | : Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target</b>            | : GluR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Receptor</b>          | : mGluR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Solubility</b>        | : DMSO:10 mM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SMILES</b>            | : O.N[C@@H](CS(O)(=O)=O)C(O)=O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

1.Parsons RB et al. In vitro effect of the cysteine metabolites homocysteic acid homocysteine and cysteic acid upon human neuronal cell lines. Neurotoxicology. 1998 Aug-Oct;19(4-5):599-603.