

|                          |                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : Spermidine hydrochloride                                                                                          |
| <b>Synonyms</b>          | : Spermidine trihydrochloride; 4-Azaoctamethylenediamine trihydrochloride                                           |
| <b>Cat No.</b>           | : M19880                                                                                                            |
| <b>CAS Number</b>        | : 334-50-9                                                                                                          |
| <b>Molecular Formula</b> | : C <sub>7</sub> H <sub>22</sub> Cl <sub>3</sub> N <sub>3</sub>                                                     |
| <b>Formula Weight</b>    | : 254.62                                                                                                            |
| <b>Chemical Name</b>     | : —                                                                                                                 |
| <b>Description</b>       | : Spermidine a natural polyamine is a novel autophagy inducer and negatively modulates N-methyl-d-aspartate (NMDA). |
| <b>Pathway</b>           | : Membrane Transporter/Ion Channel                                                                                  |
| <b>Target</b>            | : NMDAR                                                                                                             |
| <b>Receptor</b>          | : NMDA receptor; Autophagy                                                                                          |
| <b>Solubility</b>        | : DMSO: 117.8 mM; Water: 196.4 mM                                                                                   |
| <b>SMILES</b>            | : Cl.Cl.Cl.NCCCCNCCCN                                                                                               |
| <b>Storage</b>           | : (-20°C)                                                                                                           |
| <b>Stability</b>         | : ≥ 2 years                                                                                                         |
| <b>Reference</b>         | :                                                                                                                   |

1. Madeo F et al. Spermidine: a novel autophagy inducer and longevity elixir. Autophagy. 2010 Jan;6(1):160-2.