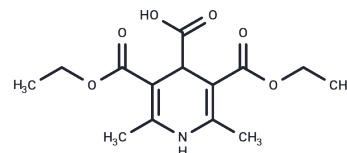


## AV-153 free base

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 19350-66-4                                               |
| Formula:          | C <sub>14</sub> H <sub>19</sub> NO <sub>6</sub>          |
| Molecular Weight: | 297.3                                                    |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | AV-153 free base is a 1,4-dihydropyridine (1,4-DHP) derivative. AV-153 free base is an antimutagenic with anti-cancer activity. AV-153 free base interacts with cytosine and thymine and has an influence on poly(ADP)ribosylation. AV-153 free base intercalates to DNA in a single strand break and reduces DNA damage, stimulates DNA repair in human cells in vitro [1] [2] [3].                |
| In vitro    | AV-153 free base demonstrates inhibitory concentration values (IC <sub>50</sub> s) of 14.9 mM and 10.3 mM for Raji and HL-60 cells, respectively [1]. Furthermore, it significantly decreases the occurrence of DNA single-strand breaks (SSBs) in peripheral blood lymphocytes and HL-60 cells by 13-67% when applied in concentrations ranging from 1 nM to 10 μM over a duration of 3 hours [1]. |

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 3.3636 mL | 16.818 mL | 33.6361 mL |
| 5 mM  | 0.6727 mL | 3.3636 mL | 6.7272 mL  |
| 10 mM | 0.3364 mL | 1.6818 mL | 3.3636 mL  |
| 50 mM | 0.0673 mL | 0.3364 mL | 0.6727 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

**This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use**

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