



上海源叶生物科技有限公司  
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产品名称: **NS3694**  
CAS 号: **426834-38-0**  
产品货号: **T79415**

#### 生物活性:

|                                                                                                                                                         |                                                                                                                                                                                                                                                                                         |                                |            |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|------------|------------|
| Description                                                                                                                                             | NS3694, a diarylurea compound, is an apoptosome inhibitor. NS3694 inhibits apoptosome formation and caspase activation[1].                                                                                                                                                              |                                |            |            |            |
| In Vitro                                                                                                                                                | When cell extracts are stimulated with cytochrome c and dATP in the presence of NS3694 (10-100 μM; 120 min), a dose-dependent inhibition of caspase 9, 3, and 7 processing, DFF45/ICAD and PARP cleavage, and DEVDase activity is observed[1].                                          |                                |            |            |            |
|                                                                                                                                                         | NS3694 (10-100 μM) inhibits TNF-induced effector caspase activation and apoptosis in MCF-casp3 cells[1].                                                                                                                                                                                |                                |            |            |            |
|                                                                                                                                                         | NS3694 specifically suppresses the cytochrome C-induced formation of apoptosome complex and caspase-9 activation, thus inhibiting the mitochondria-mediated apoptosis. NS3694 inhibits the formation of the apoptosome Apaf-1 by blocking the activation of the initiator caspase-9[1]. |                                |            |            |            |
|                                                                                                                                                         | Western Blot Analysis[1]                                                                                                                                                                                                                                                                |                                |            |            |            |
|                                                                                                                                                         | Cell Line:                                                                                                                                                                                                                                                                              | HeLa cells                     |            |            |            |
|                                                                                                                                                         | Concentration:                                                                                                                                                                                                                                                                          | 10 μM, 50 μM, 100 μM           |            |            |            |
| Incubation Time:                                                                                                                                        | 120 min                                                                                                                                                                                                                                                                                 |                                |            |            |            |
| Result:                                                                                                                                                 | Inhibited cytochrome c- and dATP-induced DEVDase activation and processing of caspases and caspase substrates.                                                                                                                                                                          |                                |            |            |            |
| Solvent&Solubility                                                                                                                                      | 细胞实验:                                                                                                                                                                                                                                                                                   |                                |            |            |            |
|                                                                                                                                                         | DMSO 中的溶解度 : 250 mg/mL (696.96 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)                                                                                                                                                                                                           |                                |            |            |            |
|                                                                                                                                                         | Preparing Stock Solutions                                                                                                                                                                                                                                                               | Solvent / Mass / Concentration | 1 mg       | 5 mg       | 10 mg      |
|                                                                                                                                                         |                                                                                                                                                                                                                                                                                         | 1 mM                           | 2.7878 mL  | 13.9392 mL | 27.8784 mL |
|                                                                                                                                                         |                                                                                                                                                                                                                                                                                         | 5 mM                           | 0.5576 mL  | 2.7878 mL  | 5.5757 mL  |
| 10 mM                                                                                                                                                   | 0.2788 mL                                                                                                                                                                                                                                                                               | 1.3939 mL                      | 2.7878 mL  |            |            |
| * 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。                                                                                            |                                                                                                                                                                                                                                                                                         |                                |            |            |            |
| 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。                                                              |                                                                                                                                                                                                                                                                                         |                                |            |            |            |
| 参考文献                                                                                                                                                    | [1]. Ulrik Lademann, et al. Diarylurea compounds inhibit caspase activation by preventing the formation of the active 700-kilodalton apoptosome complex. Mol Cell Biol. 2003 Nov;23(21):7829-37.                                                                                        |                                |            |            |            |
| 完整储备液配制表:                                                                                                                                               |                                                                                                                                                                                                                                                                                         |                                |            |            |            |
| * 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 |                                                                                                                                                                                                                                                                                         |                                |            |            |            |
| 可选溶剂                                                                                                                                                    | 质量 / 溶剂体积 / 浓度                                                                                                                                                                                                                                                                          | 1 mg                           | 5 mg       | 10 mg      | 25 mg      |
| DMSO                                                                                                                                                    | 1 mM                                                                                                                                                                                                                                                                                    | 2.7878 mL                      | 13.9392 mL | 27.8784 mL | 69.6961 mL |



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|  |        |           |           |           |            |
|--|--------|-----------|-----------|-----------|------------|
|  | 5 mM   | 0.5576 mL | 2.7878 mL | 5.5757 mL | 13.9392 mL |
|  | 10 mM  | 0.2788 mL | 1.3939 mL | 2.7878 mL | 6.9696 mL  |
|  | 15 mM  | 0.1859 mL | 0.9293 mL | 1.8586 mL | 4.6464 mL  |
|  | 20 mM  | 0.1394 mL | 0.6970 mL | 1.3939 mL | 3.4848 mL  |
|  | 25 mM  | 0.1115 mL | 0.5576 mL | 1.1151 mL | 2.7878 mL  |
|  | 30 mM  | 0.0929 mL | 0.4646 mL | 0.9293 mL | 2.3232 mL  |
|  | 40 mM  | 0.0697 mL | 0.3485 mL | 0.6970 mL | 1.7424 mL  |
|  | 50 mM  | 0.0558 mL | 0.2788 mL | 0.5576 mL | 1.3939 mL  |
|  | 60 mM  | 0.0465 mL | 0.2323 mL | 0.4646 mL | 1.1616 mL  |
|  | 80 mM  | 0.0348 mL | 0.1742 mL | 0.3485 mL | 0.8712 mL  |
|  | 100 mM | 0.0279 mL | 0.1394 mL | 0.2788 mL | 0.6970 mL  |

