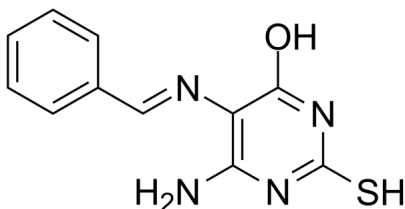


## Certificate of Analysis

|                |         |
|----------------|---------|
| Catalog Number | BP13305 |
| Product Name   | L189    |

## Physical and Chemical Properties

|  |  |
|--|--|
| CAS No.                                  | 64232-83-3   |
| Chemical Formula                         | C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> OS                                    |
| Molecular Weight                         | 246.29   |
| Solubility                               | Ethanol: 1 mg/mL<br>H <sub>2</sub> O: Insoluble; DMSO: 25 mg/mL                      |
| Storage                                  | Powder: -20°C for 2 years<br>In solvent: -80°C for 1 year                            |
| Chemical Structure<br>OR<br>Tested Image |  |

## Product Information

|                          |  |
|--------------------------|--|
| Description              | L189 is a human DNA ligase inhibitor, inhibits hLigI/III/IV (IC <sub>50</sub> : 5/9/5 μM). |
| Targets&IC <sub>50</sub> | DNA ligase I:5 μM, DNA ligase III:9 μM, DNA ligase IV:5 μM                                 |

|          |  |
|----------|--|
| In vitro | L189 inhibits DNA ligases I, III and IV in DNA joining assays with purified proteins and in cell extract assays of DNA replication, base excision repair and non-homologous end joining. L189 markedly increases killing of HCT116 colon cancer cells and the other cancer cell lines by ionizing radiation. |
|----------|--|

## Analytical Data

|                                 |  |
|---------------------------------|--|
| HPLC                            | Shows Min >99% purity  |
| H-NMR                           | Consistent with structure  |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

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v2 Revision on 12/28/2022