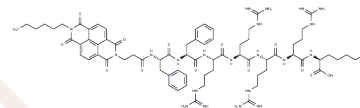


NDI-Lyso

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2999646-19-2 |
| Formula: | C71H100N22O13 |
| Molecular Weight: | 1469.69 |
| Storage: | Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|---|
| Description | NDI-Lyso is an anticancer agent targeting lysosomes, functioning through an enzyme-induced self-assembly (EISA) mechanism catalyzed by Cathepsin B. In cancer cell lysosomes, it forms rigid long fibers, promoting lysosomal swelling, lysosomal membrane permeabilization (LMP), and membrane disruption. This leads to non-classical caspase-independent apoptosis (Apoptosis). NDI-Lyso demonstrates significant selective anticancer activity across various cancer cell lines and drug-resistant cancer cells (IC50 approximately 10 μ M), while exhibiting low toxicity to normal cells (IC50 > 60 μ M). |
| Targets(IC50) | Apoptosis,Caspase |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.6804 mL | 3.4021 mL | 6.8042 mL |
| 5 mM | 0.1361 mL | 0.6804 mL | 1.3608 mL |
| 10 mM | 0.068 mL | 0.3402 mL | 0.6804 mL |
| 50 mM | 0.0136 mL | 0.068 mL | 0.1361 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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