

## Milatuzumab

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 899796-83-9  |
| Formula:          |  |
| Molecular Weight: | 146.66 kDa   |
| Storage:          | Store at low temperature<br>-20°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |

## Biological Description

|               |  |
|---------------|--|
| Description   | Milatuzumab (MEDI-115) is a humanized monoclonal antibody against CD74. Milatuzumab promotes the production of free radical oxygen and the loss of mitochondrial membrane potential, reduces CD20/CD74 aggregates and cell adhesion, and induces cell death.   |
| Targets(IC50) | Others,CD74  |
| In vitro      | Milatuzumab (5 µg/mL; 8-48 hours) enhanced cell death in MCL cell lines and primary patient tumor cells[1].<br>In Jeko, Mino, and SP-53 cells, milatuzumab (5 µg/mL; 0.5-2 h) mediated cytotoxicity, depending in part on ROS production and loss of mitochondrial transmembrane potential[1].<br>Milatuzumab (5 µg/mL; 4 hours) inhibited the NF-κB pathway and induced apoptosis. The mechanism of apoptosis was not related to caspase cleavage, Bcl-2 family member disorder, or autophagy induction[1]. |
| In vivo       | Administered at a dose of 15 mg/kg/day via intraperitoneal injection every 3 days, milatuzumab significantly increased the survival rate of female SCID mice carrying Jeko cancer cells. Additionally, Milatuzumab and Rituximab demonstrated a synergistic effect in this mouse model[1].   |

### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 0.0068 mL  | 0.0341 mL  | 0.0682 mL   |
| 5 mM  | 0.0014 mL  | 0.0068 mL  | 0.0136 mL   |
| 10 mM | 0.0007 mL  | 0.0034 mL  | 0.0068 mL   |
| 50 mM | 0.0001 mL  | 0.0007 mL  | 0.0014 mL   |

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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.

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