

AFM24

## Chemical Properties

CAS No. :

Formula:

Molecular Weight: 150 kDa

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | AFM24 is a bispecific antibody with a TandAb structure expressed in CHO cells, simultaneously targeting the Epidermal Growth Factor Receptor (EGFR) and FcγRIIIA (CD16A). It consists of a hulgG1-scFv heavy chain and a λ light chain, with a predicted molecular weight of 196.34 kDa. As a novel innate immune cell engager, AFM24 binds with high affinity to CD16A on NK cells and macrophages, directing these effector cells to eliminate EGFR-positive tumor cells. Its mechanism primarily leverages enhanced antibody-dependent cellular cytotoxicity (ADCC) and antibody-dependent cellular phagocytosis (ADCP) to overcome limitations of conventional anti-EGFR therapies. |
| Targets(IC50) | EGFR, Immunology/Inflammation related   |
| In vitro      | AFM24 binds with high affinity to EGFR and CD16A, inducing potent NK cell-mediated cytotoxicity against EGFR-positive tumor cells. Its activity is independent of EGFR signaling, overcoming resistance driven by KRAS/BRAF mutations. It also promotes macrophage-mediated ADCP [1].   |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.0067 mL | 0.0333 mL | 0.0667 mL |
| 5 mM  | 0.0013 mL | 0.0067 mL | 0.0133 mL |
| 10 mM | 0.0007 mL | 0.0033 mL | 0.0067 mL |
| 50 mM | 0.0001 mL | 0.0007 mL | 0.0013 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**

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

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