

HeFi-1

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature  
Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	HeFi-1 is a mouse anti-CD30 IgG1 monoclonal antibody that targets the ligand-binding site on CD30. It can inhibit the growth of tumor cells with high CD30 expression and induce eosinophil apoptosis (apoptosis). HeFi-1 is applicable in research on cancer or inflammatory diseases, such as anaplastic large cell lymphoma (ALCL) and asthma.
Targets(IC50)	Apoptosis,TNF
In vitro	HeFi-1 (0.1 ng/ $\mu$ L, 1 hour) can specifically bind to Karpas299 cells, achieving a binding rate of over 90%. At a concentration of 20 $\mu$ g/mL for 48 hours, HeFi-1 significantly inhibits the proliferation of Karpas299 cells and induces G1 phase arrest. Additionally, HeFi-1 (20 $\mu$ g/mL, 12-24 hours) significantly induces eosinophil apoptosis.
In vivo	Administered intravenously at a dose of HeFi-1 (100 $\mu$ g) once a week for four weeks, the compound significantly prolongs the survival of SCID/NOD wild-type and FcR $\gamma$ -/- Karpas299 lymphoma-bearing mice.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481