

Cabiralizumab

Chemical Properties

CAS No. : 1613144-80-1

Formula:

Molecular Weight: 146.30 kDa

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cabiralizumab (FPA 008) is an anti-CSF1R monoclonal antibody (mAb) that enhances T cell infiltration and strengthens antitumor immune responses. Cabiralizumab prevents osteoclast activation, thereby inhibiting bone destruction, and is employed in rheumatoid arthritis (RA) research. Additionally, Cabiralizumab has been investigated in combination with Nivolumab in lung cancer studies, highlighting its role in immunoncology.
Targets(IC50)	c-Fms
In vitro	After 7 days of in vitro treatment, Cabiralizumab disrupts circulating tumor cell (CTC) cluster formation and promotes CTC apoptosis in unclassified samples of portal vein blood monocytes (PortalBMC) from pancreatic ductal adenocarcinoma (PDAC). Simultaneously, it reactivates T cells (CD3 ⁺ CD25 ⁺ CTLA4 ⁻ PD-L1 ⁻) in PDAC's PortalBMC and increases IFN γ production. [4]
In vivo	Methods: Cabiralizumab (200, 400 μ g, twice weekly for 5 doses) was administered intraperitoneally to YUMMER1.7 and YUMM1.7 murine melanoma models to evaluate its effects on tumor growth and survival. Single-cell RNA sequencing (scRNA-seq) was employed to analyze changes in macrophage subsets within tumor tissues. Results: High-dose Cabiralizumab treatment accelerated tumor growth and shortened survival, increased the abundance of CD163 ⁺ cells (immunosuppressive TAMs) in tumors, elevated the proportion of immunosuppressive TAM-II populations, and upregulated chemokine levels (e.g., CXCL2 and CCL3) that recruit immunosuppressive cells. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0342 mL	0.0684 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 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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