

Flotetuzumab

Chemical Properties

CAS No. : 1664355-28-5

Formula:

Molecular Weight:

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

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Flotetuzumab is a bispecific antibody targeting CD123 and CD3. It can simultaneously recognize the CD123 antigen on the surface of tumor cells and the CD3 molecule on the surface of effector T cells, thereby activating T cell function and triggering T cell-mediated targeted killing. It shows significant antitumor inhibitory activity in patient-derived xenograft (PDX) mouse models of acute myeloid leukemia (AML).
Targets(IC50)	Immunology/Inflammation related,Integrin
In vitro	Flotetuzumab promotes the secretion of IFN- γ , IL-10 and IL-6 when applied to primary peripheral blood mononuclear cells (PBMCs) at concentrations of 0.01 ng/mL and 0.1 ng/mL for 144 h. Within the concentration range of 10^{-6} to 10^2 ng/mL and treatment duration of 24 h, flotetuzumab exerts cytotoxic effects on the acute myeloid leukemia Kasumi-3 cell line in co-culture systems with human PBMCs or cynomolgus monkey cells [1].
In vivo	Flotetuzumab exerts antitumor activity in human peripheral blood mononuclear cell (PBMC)-reconstituted tumor-bearing mouse models when administered by intraperitoneal injection and continuous infusion for 6 days at doses of 0.5-4 μ g/kg [1]. Flotetuzumab prolongs survival and induces T-cell proliferation in an acute myeloid leukemia (AML) NTPL-146 patient-derived xenograft (PDX) mouse model when dosed at 0.5 mg/kg every 5 days for 30 days [2].

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