

Aducanumab (Mouse IGG2a)

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	Aducanumab (Mouse IGG2a) is a monoclonal antibody that selectively targets aggregated amyloid-beta protein (A β). Its variable region matches that of Aducanumab, while the constant region is derived from the Mouse IGG2a sequence. Aducanumab (Mouse IGG2a) demonstrates strong selectivity for A β fibrils, with EC50 values of >1 μ M for A β 1-40 monomer and 0.2 nM for A β 1-42 fibrils. This compound can be utilized in Alzheimer's disease (AD) research.
Targets(IC50)	Beta Amyloid
In vitro	Aducanumab (Mouse IGG2a) exhibits very weak monovalent binding affinity, with its Fab fragment binding to surface-captured monomeric A β 1-40-biotin having a K _D of approximately 9 μ M. At a concentration of 5 μ M, Aducanumab shows low affinity for A β peptides, with K _D values of 1.8 μ M and 5.9 μ M for A β 1-16 and A β 1-28, respectively. The compound also displays weak affinity for monomer and tetramer multi-antigen peptides (MAPs), with EC ₅₀ values for dimeric and tetrameric A β 1-15 MAP greater than 1 μ M and approximately 7 nM, respectively. Aducanumab effectively binds immobilized A β amidst excess free monomers, with an IC ₅₀ of greater than 1 μ M.

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