

Anti-MERS-D12 mAb

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	Anti-MERS-D12 mAb is a fully human monoclonal neutralizing antibody isolated from a recovered patient. It binds specifically to the receptor-binding domain (RBD) of the MERS-CoV spike glycoprotein with extremely high affinity, effectively blocking the interaction between the virus and the host receptor dipeptidyl peptidase 4 (DPP4). This action exerts potent neutralizing activity by preventing viral attachment and entry into host cells.
Targets(IC50)	Virus Protease
In vitro	In vitro neutralization assays, Anti-MERS-D12 mAb demonstrated ultrapotent neutralizing activity against MERS-CoV, with IC50 values often in the low ng/mL range (e.g., <10 ng/mL), by cross-linking and blocking the interaction of the viral RBD with the cellular DPP4 receptor [1].
In vivo	In prophylactic and therapeutic pharmacological studies using hDPP4-transgenic mouse models infected with MERS-CoV, single-dose administration of Anti-MERS-D12 mAb significantly reduced pulmonary viral titers to undetectable levels and provided 100% protection against lethal challenge, preventing virus-induced weight loss and lung pathology [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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