

TNF

Human anti-TNF alpha (Clone D2E7, Adalimumab) mAb

Catalog No.	CSB104A CSB104B	Quantity:	200 µg 1.0 mg
Alternate Names:	Adlimumab, Humira		
Description:	<p>Adalimumab is a TNF inhibiting, anti-inflammatory biologic medication. It is the first fully human monoclonal therapeutic antibody. TNF alpha bound to its receptor leads to the inflammatory response associated with autoimmune diseases. Adalimumab binds specifically to TNF alpha, neutralizes the biological function by blocking its interaction with p55 and p75 cell surface TNF receptors. By this mechanism, adalimumab reduces the inflammatory response associated with autoimmune diseases. Adalimumab has been shown to reduce the symptoms of rheumatoid arthritis, Crohn's disease, plaque psoriasis, among others.</p> <p>Adalimumab was originally launched by Abbvie in the U.S. and approved in 2002 by the FDA. This drug is frequently known as Humira. A new biosimilar to adalimumab, named adalimumab-adaz, was approved by the FDA on October 31, 2018. This biosimilar is known as Hyrimoz, and is a trademark of Novartis AG 9.</p>		
Concentration:	1.0 mg/ml		
UniProt ID (target):	P01375		
Source:	CHO cell line		
Isotype:	Human IgG1κ		
Clone:	D2E7 (Adalimumab)		
INN:	Adalimumab		
Specificity:	Binds to soluble TNF alpha, but not to TNF beta.		
Biologic Activity:	<p>Adalimumab (anti-TNF-alpha) blocks the interaction of TNF with the p55 and p75 cell surface TNF receptors, thereby neutralizing the activity of this cytokine. Through its anti-TNF actions, adalimumab reduces concentrations of matrix metalloproteases (MMP-1 and -3) and other markers of cartilage and synovium turnover, reduces of matrix metalloproteases (MMP-1 and -3) and other markers of cartilage and synovium turnover, and reduces concentrations of acute phase reactants of inflammation (C-reactive protein [CRP] and erythrocyte sedimentation rate [ESR]) and serum cytokines (IL-1β mRNA, IL-1 receptor antagonist, IL-6).</p>		
Formulation:	PBS, pH 7.5		
Purity:	> 95% as determined by SDS-PAGE		
Reactivity:	Human		
Applications:	Functional studies, ELISA		
Storage & Stability:	<p>Recommended storage, undiluted at 2-8°C for up to 1 week, or in working aliquots at -20°C to -80°C for up to 1 year. Avoid freeze/thaw cycles.</p>		

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