

ALT-100 (Human IgG1)

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	ALT-100 (Human IgG1) is a humanized monoclonal neutralizing antibody targeting extracellular nicotinamide phosphoribosyltransferase (eNAMPT). This product binds specifically to eNAMPT, blocking its function as a damage-associated molecular pattern (DAMP) that induces pro-inflammatory and pro-fibrotic signaling. ALT-100 effectively inhibits eNAMPT-mediated TLR4 activation, reduces the release of inflammatory cytokines, and suppresses tissue remodeling. It serves as an important pharmacological tool for researching post-infarct myocardial fibrosis, acute respiratory distress syndrome (ARDS), and systemic inflammatory response syndrome.
Targets(IC50)	NAMPT
In vitro	ALT-100 (Human IgG1) binds human eNAMPT with high affinity, neutralizing its non-enzymatic cytokine activity. It inhibits eNAMPT-induced TLR4/NF-κB activation in macrophages and myofibroblasts, downregulating pro-inflammatory factors (TNF-α, IL-6) and fibrotic markers (α-SMA) [1][2].
In vivo	In pharmacological studies using mouse models of permanent myocardial infarction (MI), systemic administration of ALT-100 (Human IgG1) (at doses such as 5-10 mg/kg) significantly reduces myocardial infarct size and suppresses post-infarct fibrosis; the treatment leads to a measurable improvement in left ventricular (LV) function, as evidenced by increased ejection fraction and reduced ventricular dilation, confirming its efficacy in mitigating pathological cardiac remodeling [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481