

ESBA-105

## 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	ESBA-105 represents a highly stable, humanized single-chain Fv (scFv) antibody fragment specifically engineered to target and neutralize human tumor necrosis factor-alpha (TNF- $\alpha$ ) with exceptional binding affinity. It effectively facilitates the measurable blockade of TNF-mediated pro-inflammatory signaling and apoptosis across various preclinical experimental models to evaluate the optimization of tissue penetration and pharmacokinetic stability during strictly monitored laboratory observation periods and functional neutralization assays.
Targets(IC50)	TNF
In vitro	In standardized neutralization assays using L929 fibroblast cells, ESBA-105 inhibited TNF-alpha induced cytotoxicity in a dose-dependent manner [1].
In vivo	In rabbit models of ocular delivery, topical administration of ESBA-105 resulted in rapid tissue distribution and reached therapeutic concentrations in the aqueous and vitreous humor [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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