

FZ-A038

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	FZ-A038 is a humanized monoclonal antibody targeting Delta-like ligand 3 (DLL3). DLL3 is specifically overexpressed in small cell lung cancer (SCLC) and neuroendocrine carcinomas, with its signaling activation involving proteolytic cleavage by Gamma-secretase. FZ-A038 binds to the extracellular domain of DLL3 with high affinity and induces rapid internalization. As the antibody component of the antibody-drug conjugate (ADC) FZ-AD005, it delivers a conjugated Topoisomerase I inhibitor (an exatecan derivative) into tumor cells via internalization, inducing DNA damage and exerting potent anti-tumor activity.
Targets(IC50)	ADC Antibody
In vitro	FZ-A038 binds human DLL3 with high affinity and specificity, undergoing rapid internalization in NCI-H69 and NCI-H187 cells. In ADC format (FZ-AD005), it exhibits potent cytotoxicity (sub-nanomolar IC50) by inducing DNA double-strand breaks and subsequent apoptosis in DLL3+ tumor cells [1].
In vivo	In pharmacological studies using SCLC and neuroendocrine carcinoma xenograft mouse models, systemic administration of the FZ-AD005 ADC (containing the FZ-A038 arm) results in significant and durable tumor regression [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