

Olintatug

Chemical Properties

CAS No. : 2851870-28-3

Formula:

Molecular Weight:

Storage: Store at low temperature

Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Olintatug (ADCT-901) is a highly specialized antibody-drug conjugate (ADC) targeting Kidney-Associated Antigen 1 (KAAG1). It comprises a humanized monoclonal antibody conjugated to a potent pyrrolobenzodiazepine (PBD) dimer cytotoxin via a cathepsin-cleavable linker. Olintatug specifically binds to KAAG1 on tumor cell surfaces, internalizes, and releases the PBD dimer, which induces lethal DNA interstrand cross-links, blocking cell division. It is investigated for KAAG1-expressing solid tumors, including ovarian and triple-negative breast cancers.
Targets(IC50)	Immunology/Inflammation related
In vitro	In functional assays using c-Met-expressing gastric cancer cell lines, Olintatug induced rapid receptor internalization and demonstrated potent cytotoxic activity with IC50 values in the picomolar range [1].
In vivo	In gastric and colorectal cancer PDX models, systemic administration of Olintatug induced robust and sustained tumor regression in models with varying c-Met expression levels [1].

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