



ASP1007  
NON-CONFIDENTIAL SUMMARY



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Items	Note
Product name	ASP1007
Mechanism of Action	T cell-mediated CD37-positive tumor killing
Modality	Antibody
Target Indication	Non-Hodgkin lymphoma (diffuse large B cell lymphoma)
Latest development phase	Preclinical

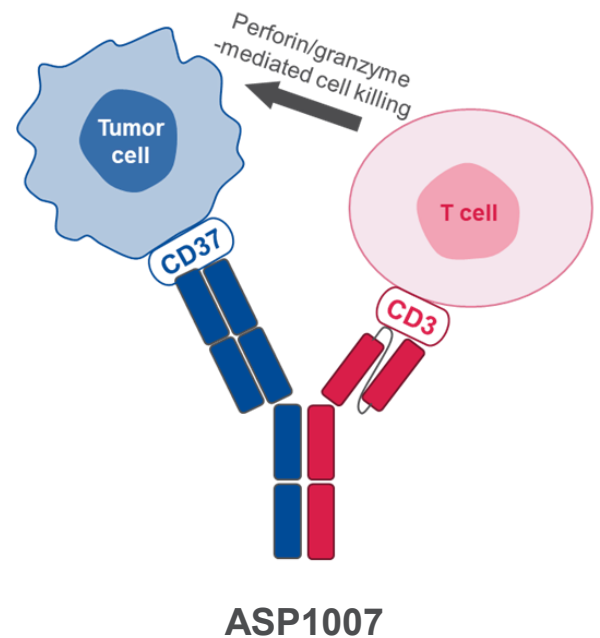
# MECHANISM OF ACTION AND TARGET INDICATION

ASP1007 is a bispecific T cell recruiting antibody which targets CD37-expressing cells.

Different from natural antibodies, T cell recruiting antibodies can redirect T cells to specific tumor antigens and activate T cells directly.

CD37 most highly expressed by mature B-cells, although other immune cells express CD37 to a lesser degree. It is absent in the earliest stages of B cell development and is lost again following differentiation into plasma cells.

This pattern is mirrored in B cell malignancies: CD37 is expressed in mature B cell neoplasms, including diffuse large B cell lymphoma and other non-Hodgkin lymphomas.



# ASP1007 SUMMARY OF PRECLINICAL RESULTS

## Pharmacology

- ASP1007 induced in vitro redirected T cell cytotoxicity against SU-DHL6, a CD37-expressing diffuse large B cell lymphoma cell line.
- ASP1007 showed killing activity against B cells but not against T cells when cultured with PBMC from healthy volunteers.
- ASP1007 showed in vivo antitumor efficacy in human PBMC engrafted SU-DHL6 xenograft mouse model.

## ADME

- No critical concerns were found in PK profiles of ASP1007 in cynomolgus monkeys.
- Analytical method validation for GLP toxicity study and clinical trials are not yet performed.

## Toxicology

- No GLP toxicity study has been conducted yet.
- No critical concern has been identified in a single dosing toxicity study with cynomolgus monkeys (Non-GLP).

## Patent covering ASP1007

- Priority application (filed on May 12, 2022) for the substance
  - ✓ This priority application is maintained in Japan. The plan to file foreign countries is TBD.