



# IKS014: HER2-directed ADC for solid tumors

**TARGET:** HER2

**ANTIBODY:** Anti-HER2 monoclonal IgG1, humanized

**LINKER:** Site-specific conjugation of  $\beta$ -glucuronide for tumour-selective enzymatic payload activation and release

**DRUG/PAYLOAD:** Auristatin MMAF

**DRUG DESCRIPTION:** IKS014 is a class-leading ADC that incorporates an anti-HER2 antibody conjugated to the tubulin polymerization inhibitor MMAF via site-specific conjugation, with tumour-selective payload activation and release via glucuronide linker formats.

## CLINICAL STUDIES: Class leading clinical profile.

**Phase 1a:** 70 evaluable patients with advanced HER2+ cancers who failed on previous HER2 therapies. Median number of prior therapies was 4

**Recommended Dose for Dose Expansion:** 105 mg/m<sup>2</sup> (2.8mg/kg) once every 3 weeks

At a median follow-up of 6.6 months (Data cut-off 31 07 25, n = 62):

### Efficacy

- ▶ ORR: Breast cancer; 64% (at doses  $\geq$  90 mg/m<sup>2</sup>)
- ▶ Oesophageal cancer: 50%

### Safety

- ▶ No ILD at any grade; G1/ G2 pneumonitis only
- ▶ No ocular (corneal) DLTs; G1/ G2 keratitis (low frequency)
- ▶ Low incidence of neutropenias
- ▶ No thrombocytopenia
- ▶ Sig reduced GHI toxicities compared with other HER2-directed ADCs (Enhertu, Kadcyla)

**PRECLINICAL STUDIES:** Best-in-class efficacy (MED in mouse xenograft and PDX models); **Best-in-class safety** (HNSTD NHPs); Preclinical TI is significantly superior to in-clinic and on-market HER2-directed ADCs.

**Efficacy:** Significantly enhanced efficacy over Kadcyla; similar or better efficacy than Enhertu. In JIMT-1 (HER2 2+ BC), IKS014 induced complete regression with 5mg/kg single dose; Enhertu shows marginal regression at 10mg/kg. IKS014 is active in Kadcyla-

resistant HER2+ gastric cancer models. **Safety:** GLP toxicology; HNSTD  $>12$ mg/kg (single dose) with no ocular or ILD-related toxicities. Preclinical TI is  $>4$ -fold higher than Enhertu and  $>10$ -fold higher than Kadcyla.

**DEVELOPMENT STATUS:** Phase 1b (Iksuda WW trial); Phase 3 (Fosun Pharma, in China as FS-1502)

**CLINICAL INDICATION:** HER2+ advanced solid tumours:

- ▶ Breast cancer (BC)
- ▶ Gastric (GC), gastro-oesophageal-junction (GEJ), oesophageal cancers
- ▶ Other HER2+ solid tumours and HER2-mutated lung cancer

## CLINICAL TRIALS

**IKS014 in advanced solid tumors that express HER2**  
NCT05872295

<https://classic.clinicaltrials.gov/ct2/show/NCT05872295>

The study consists of 2 parts: dose-escalation (Part 1) and dose-expansion (Part 2).

- ▶ Estimated enrolment: 165 patients
- ▶ Enrolment sites: Australia, NZ, Singapore, US

**Phase 1 Study of FS-1502 in patients with HER2 expressed advanced solid tumors and breast cancer.**  
NCT03944499

<https://classic.clinicaltrials.gov/ct2/show/NCT03944499>

- ▶ Estimated enrolment: 297 patients
- ▶ Enrolment sites: China

**FS-1502 Versus T-DM1 for HER2-Positive Unresectable Locally Advanced or Metastatic Breast Cancer**  
NCT05755048

<https://classic.clinicaltrials.gov/ct2/show/NCT05755048>

- ▶ Estimated enrolment: 314 patients

## PARTNERING STATUS

Available for license: WW excluding China.

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