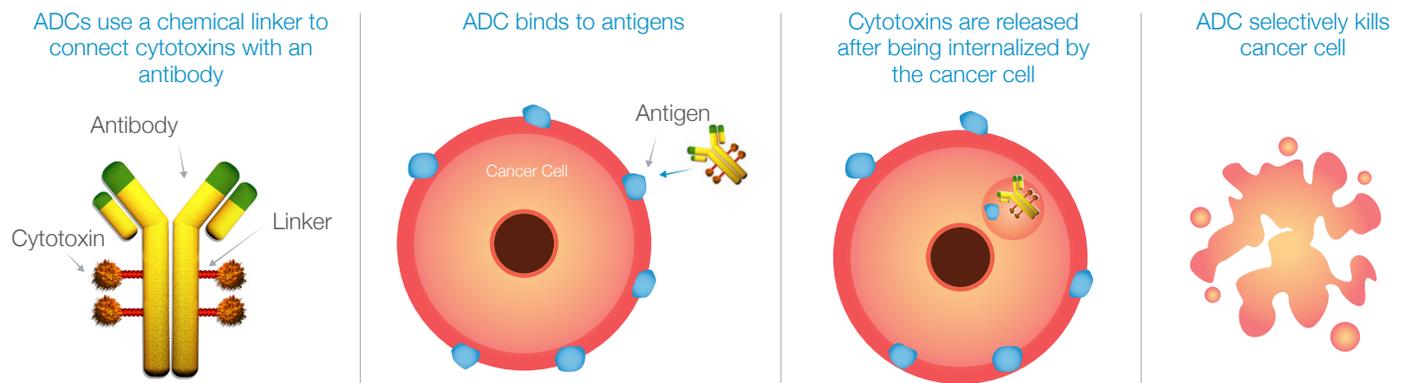


## Antibody-Drug Conjugates (ADCs)

Antibody-Drug Conjugates, or ADCs, are designed to precisely deliver cytotoxins to cancer cells with potential to treat both solid tumors and hematologic cancers.

### Mechanism of Action

ADCs use a chemical linker to connect cytotoxins – such as chemotherapy – with an antibody. This enables the ADC to target and bind to cell-surface proteins called antigens that can be found on cancer cells and release its cell-killing drugs only after it has been internalized by the cancer cell. As a result, ADCs have the potential to selectively kill cancer cells and limit side effects for patients.



### Pfizer ADC Portfolio

Pfizer is using its understanding of the biology of cancer to explore a number of antibody-linker-cytotoxin combinations and build proprietary ADC platforms to develop a diverse ADC toolkit.



### Late-Stage Assets

**Inotuzumab ozogamicin** is an investigational ADC comprised of a CD22-directed mAb linked to the cytotoxic agent calicheamicin and is being studied in relapsed/refractory acute lymphoblastic leukemia (ALL)

**MYLOTARG (gemtuzumab ozogamicin)** is an ADC comprised of a CD33-directed mAb that is linked to the cytotoxic agent calicheamicin and has been studied in acute myeloid leukemia (AML).\*



### Early-Stage Investigational Assets

**PF-06650808** is an **anti-NOTCH3 ADC** that is comprised of a humanized antibody targeting the NOTCH3 receptor, which is overexpressed in a number of human cancers, linked to an auristatin-based cytotoxic agent.

In a Phase 1 study **PF-06650808 (anti-Notch3)** showed an acceptable safety profile in patients with advanced malignancies, including triple negative breast cancer, ovarian cancer and non-small cell lung cancer.<sup>1</sup> **PF-06650808** also showed early indication of anti-tumor activity in an unselected patient population.

**PF-06647020** is an **anti-PTK7 ADC** that is comprised of a humanized monoclonal antibody directed against PTK7, which is also expressed in many tumor types, linked to an auristatin microtubule inhibitor payload.

In a Phase 1 study **PF-06647020 (anti-PTK7)** showed an acceptable safety profile in patients with advanced malignancies, including triple negative breast cancer, ovarian cancer and non-small cell lung cancer. **PF-06647020** also showed early indication of anti-tumor activity in an unselected patient population.<sup>2</sup>

**PF-06647263** is an **anti-EFNA4 ADC** that is comprised of a humanized monoclonal antibody against Ephrin-A4 (EFNA4), which is overexpressed in a number of human tumors, linked to the cytotoxic agent calicheamicin.

In a Phase 1 study **PF-06647263 (anti-EFNA4)** showed an acceptable safety profile in patients with advanced malignancies, including triple negative breast cancer and ovarian cancer.<sup>3</sup> Results showed early indication of anti-tumor activity in an unselected patient population.

\* = MYLOTARG is not approved in the U.S.

<sup>1</sup> Rosen, L.S., et al. 30LBA A Phase 1 dose escalation, safety, and pharmacokinetic study of PF-06650808, an anti-Notch3 antibody drug conjugate, in adult patients with advanced solid tumors. *European Journal of Cancer*. DOI: 10.1016/S0959-8049(16)31948-7.

<sup>2</sup> Tolcher, A.W., et al. 28LBA A Phase 1 study of PF-06647020, an antibody-drug conjugate targeting PTK7, in patients with advanced solid tumors. *European Journal of Cancer*. DOI: 10.1016/S0959-8049(16)31946-3.

<sup>3</sup> Hong, D.S., et al. First-in-human dose escalation, safety, and PK study of a novel EFNA4-ADC in patients with advanced solid tumors. *J Clin Oncol (Meeting Abstracts)* 2015: 2520. Available at: [http://meeting.ascopubs.org/cgi/content/abstract/33/15\\_suppl/2520](http://meeting.ascopubs.org/cgi/content/abstract/33/15_suppl/2520). Accessed April 1, 2015. NCT02078752?term=PF-06647263&rank=1. Accessed March 22, 2016.