

Brand Name: Lumoxiti

Generic: moxetumomab pasudotox-tdfk

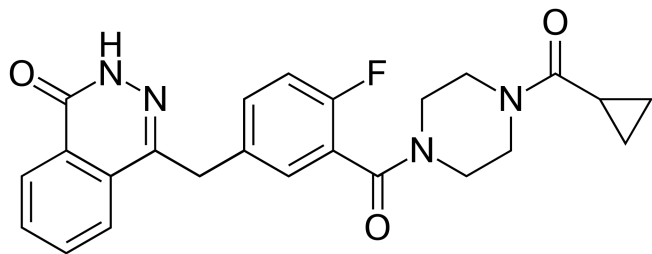
Type: small molecule

Year Accepted/Phase: 2004

Mechanism:

Moxetumomab pasudotox is a CD22-directed cytotoxin that binds to CD22 on the surface of B cells, delivering a cytotoxic agent to the cell and causing cell death.

Chemical Structure:



Indication:

Lumoxiti is indicated for the treatment of adult patients with relapsed or refractory HCL who have received at least two prior systemic therapies, including treatment with a purine nucleoside analog.

Clinical trials:

Study 205 Trial (Phase III)

Pubmed: <https://pubmed.ncbi.nlm.nih.gov/31134324/>

Purpose: Evaluate the efficacy and safety of moxetumomab pasudotox in patients with relapsed or refractory HCL.

Dates: Conducted from 2013 to 2017.

Results: The Study 205 trial demonstrated that moxetumomab pasudotox achieved a high rate of durable complete response (CR) in patients with relapsed or refractory HCL, with a manageable safety profile.

Impact: These results supported the approval of Lumoxiti for the treatment of relapsed or refractory HCL in adult patients who have received at least two prior systemic therapies, including treatment with a purine nucleoside analog.

Study 104 Trial (Phase I)

Purpose: Evaluate the safety, pharmacokinetics, and preliminary efficacy of moxetumomab pasudotox in patients with relapsed or refractory HCL.

Dates: Conducted in the early 2000s.

Results: The Study 104 trial showed promising antitumor activity of moxetumomab pasudotox in patients with relapsed or refractory HCL, with manageable adverse events.

Impact: These results supported further development of Lumoxiti for the treatment of HCL.