Biologics: Reference medicines and biosimilars



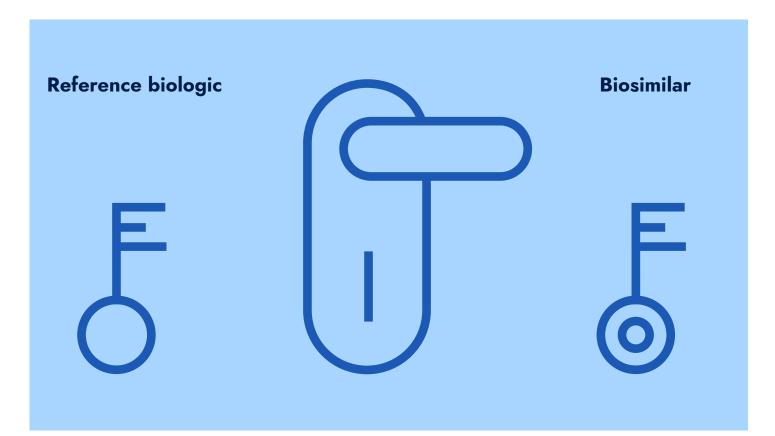
A biosimilar is a **successor to** a reference biologic medicine for which the patent has expired¹



Biosimilar

Reference biologic

Similar to the original key and a replica of the key that a locksmith can make, an approved biosimilar and its reference medicine can be expected to have the **same safety and clinical outcome in patients**^{2,3}



Biosimilars are an important building block of our healthcare system⁴

Biosimilars benefit patients, payors, and healthcare professionals by driving treatment innovation and resulting in increased treatment options, which may expand worldwide patients' access to life-changing biologic medicines^{5,6}





Reference biologics and their biosimilars...



...are both structurally complex, protein-based molecules **produced** by living cells³



...have the same
mechanism of action,
with an identical amino
acid sequence and
indistinguishable threedimensional structure of
the molecules^{3,7}



...demonstrate
equivalent efficacy
and comparable safety
and immunogenicity^{3,8}



...have a strict and robust manufacturing process and are approved based on the same standards of pharmaceutical quality, safety and efficacy³



...are granted
therapeutic indications
based on sound
scientific evidence³



Reference biologics and their biosimilars: Indistinguishable structure, same outcomes^{2,3,7,8}





