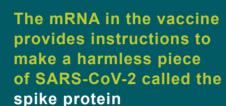
BIONTECH

Comirnaty® (BNT162b2) mRNA COVID-19 vaccine What's in it and why?

Active Ingredient

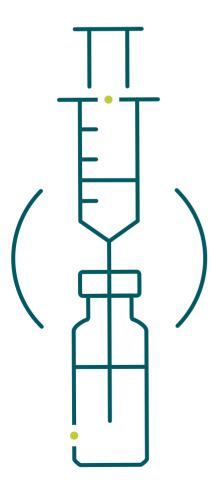


mRNA (messenger RNA) contains the instructions for our cells to make proteins





Our immune system recognizes the spike protein as foreign and builds a response to SARS-CoV-2



Other ingredients

Salts

4 different salts

These buffer the vaccines to stabilize the pH, so that it matches the pH in our bodies

Lipids

4 different fatty molecules

They form a protective capsule around the RNA, aiding in the delivery of the RNA, as well as protects the mRNA from immediate degradation

Sugar Sucrose

This is a cryoprotectant. It ensures the lipids do not get too sticky at cold storage temperatures







FOR MORE INFORMATION, PLEASE VISIT WWW.EMA.EUROPA.EU FOR A SUMMARY OF PRODUCT CHARACTERISTICS

Source: BioNTech

Comirnaty® (BNT162b2) Manufacturing process

Introduction

Our COVID19-vaccine consists of a short segment of genetic material, called messenger RNA, that provides instructions for a human cell to make a harmless version of a target protein or antigen, which activates the body's immune response against SARS-CoV-2. mRNA can be produced at large scale in a short manufacturing cycle, which is unique to BioNTech and allows for a scale-up of manufacturing aimed at a worldwide supply.

