UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of June 2022

Commission File Number: 001-40488

Molecular Partners AG

(Translation of registrant's name into English)

Wagistrasse 14 8952 Zurich-Schlieren Switzerland
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F. Form 20-F [X] Form 40-F []	
Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):	
Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):	

EXHIBIT INDEX

Exhibit No. Description

99.1 American Society for Microbiology: ASM MICROBE - poster presentation; Title: SARS-CoV-2 Omicron And Multi-variant Neutralization Activity Of Ensovibep: A DARPin Therapeutic Candidate For Treatment Of Covid-19 (a Novartis poster presentation)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Molecular Partners AG
(Registrant)

Date: June 13, 2022

/s/ PATRICK AMSTUTZ
Patrick Amstutz
Chief Executive Officer

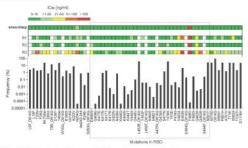
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SARS-CoV-2 Omicron And Multi-variant Neutralization Activity Of Ensovibep: A DARPin Therap Charles G. Knutson, Novartis Institutes for BioMedical Research, Car

Background

- The omicron variant of SARS-CoV-2 has altered the COVID-19 pandemic landscape. Omicron's increased transmission and ability to evade natural or vaccine-induced immunity developed against earlier variants is a strong rem
- . Therapies with potential for multi-variant effectiveness are a key component of effective pandemic
- . ENSOVIBEP is a first-in-class anti-SARS-CoV-2 DARPin (Designed Ankyrin Repeat Protein) ENSOVIBEP is a first-in-class anti-SARS-CoV-2 DARPin (Designed Ankyrin Repeat Protein) therapeutic candidate that uses three distinct DARPin domains (RT, R2, R3) with similar paratopes to cooperatively bind to different regions of the receptor binding domain (RBD) of the SARS-CoV-2 spike protein trimer, thereby preventing interaction with the host ACE2 receptor.
 The multi-specific binding of the RBD binding DARPin modules limits the impact of spike protein mutations on antiviral potency (Figure 1).

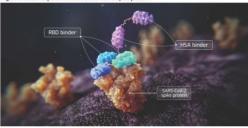
Figure 1. Global frequencies of point mutations in the spike protein of SARS-CoV-2 according to the GISAID database, including a heat map table with ICss values for ensovibep, R1, R2, R3, for all point mutations tested.



- Depiction based on structural data showing ensovibep RBD binding DARPin domains (green, blue, cyan) binding to the RBD of the SARS-CoV-2 spike protein trimer. The two additional DARPin domains (purple) bind to human serum albumin (HSA, not shown for clarify) to provide half-life ackension (Figure 2).

 We present here data supporting the multi-variant potency of ensovibep.

Figure 2. Ensovibep bound to the SARS-CoV-2 spike protein



Methods

- Wethods

 The VSV pseudotype viral system (CHUN) was based on the recombinant VSV*DELG-Lic vector in which the glycoprotein gene (G) was deleted and replaced with genes. Lic vector in which the glycoprotein gene (G) was deleted and replaced with genes. Lic vector in which the glycoprotein gene (G) was deleted and replaced with genes. Lic vector in which the glycoprotein gene genes are greated to the glycoprotein genes and general general genes and general gen

- al 2022. Live spike chimeric reporter viruses (LTMB) were constructed on the genetic backgrou of an infectious cDNA clone derived from clinical strain WA1 (2019-nCoVUSA_WA12020) containing a mNeoCirene (mN0) reporter gene, and spike mutations were engineered using a PCR-based mutatigenesis protocol. The full-length genomic cDNAs were in vitro ligated, transcribed, and electroporated into VeroE6 cells, and mutant viruses were recovered 3 days after electroporation. Mutant viruses were per-incubated with serial dilutions of ensovibvep for 1 hs 37°C before adding to pre-seeded Vero E6-TMPRSS2 cells. After 1 h infection, the incudum was removed and replaced with overlay medium (DMEM with 0.8% methylecibulose, 2% FBs, and 1% PS). After 16 h, raw images of mNG fluorescent foci were acquired, foci were counted, and 1Cus were determined using non-linear regression. Additional details can be found in 2ou et al 202

Notably, ensovibep potency (IC_{50}) against all tested variants remains in the range of 1-10 ng/mL; less than an order of magnitude difference from the reference/Muhan WT virus (**Figure 3**) (Rothenberger et al 2022).

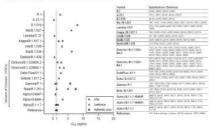


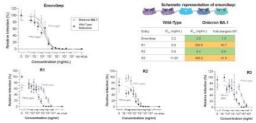
Figure 4. Neutralization activities (titration curves and IC₁₁) of ensovibep and monoclonal antibodies.

Wild Type (Whitas-bu-1



A 10- to 40-fold increase in IC₃₀ was seen for each indvidual DARPin (R1, R2, R3), however the multi-specific ensovibep containing all three RBD binding domains retained potency against BA.1 (Figure 8)

Figure 5. Titration curves and IC_{xx} values of individual ensovibep DARPin modules against wild-type and variant of SARS-CoV-2 in VSV-pseudotype neutralization assay.



ined its potency against omicron BA.2, as seen from the titration curves and IC30 va



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