



SARS-CoV-2 (Spike Glycoprotein) Peptide Pool Omicron Variant (B.1.1.529)- full length

Product	Cat#	Package size
SARS-CoV-2 (Spike Glycoprotein) Peptide Pool Omicron Variant (B.1.1.529) - full length	P2780.0315	
Peptide Pool 1: 158 peptides (25µg/each peptide)		3.950mg
Peptide Pool 2: 157 peptides (25µg/each peptide)		3.925mg

Description

This peptide pool covers the complete amino acid sequence of the whole spike glycoprotein of Covid-19 Omicron variant (B.1.1.529) with all mutations of the SARS-CoV-2 omicron variant - swiss prot: P0DTC2.

The peptide pool is divided into 2 pools with 158 peptides and 157 peptides each.

Possible applications: T-cell assays, Immune monitoring, Antigen specific T-cell stimulation, T-cell expansion, Cellular immune response.

The complete sequence of 1270 amino acid is covered by peptides of length 15 amino acids that overlap by 11 amino acids (scan 15/11).

Sequence (Each peptide ESI-MS checked. Pool is purified by solid phase extraction)

MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHVISGTNGTKRFDNPVLPFNDGVYFASIEKSNIIRGWIFGTTLDSK
TQSLIVNNATNVVIKVECFQFCNDPFLDHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPIIVREPEDLPQGFSALEP
LVDLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAAYVGYLQPRFTLLKYNENGTITDAVDCALDPLSETKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCP
FDEVFNATRFASVYAWNRKRISNCVADYSVLYNLAPFFTKCYGVSPTKLNLDLCTNNTVYADSFVIRGDEVQRQIAPGQTGNIADYNYKLPDDFTGCVIAWNSNKLDSKVSG
NYYLYRFLFRKSNLKPFERDISTEIQAGNKPCNGVAGFNCYFPLKSYGFQPTYGVGHQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLKGTGVLTESN
KKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTEVPVAIHADQLTPTWRVYSTGNSVNFQTRAGCLIGAEYVNSYECDIPI
GAGICASYQTQTKSHRRARSVASQSIIAYTMSLGAENSVAYSNNISAIPTNFTISVTTTEILPVSMTKTSVDCVDMYICGDSSTECNSNLLQYGSFCTQLKRALTGIAVEQDKNTQ
EVFAQVKQIYKTPPIKYFGGFNFSQILPDPSPKRSFIEDLLFNKVTLDAGFIKQYGDCLGDIARDLCAQKFKGLTVLPLLTDEMAIQYTSALLAGTITSGWTFGAG
AALQIPFAMQMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDLSSTASALGKLDQVNVHNAQALNTLVKQLSSKFGAIVSLNDFSRDLKVEAEVQIDRLITGRLQS
LQTYVTQQLIRAAEIRASANLAATKMSECVLGGQSKRVDFCGKGYHLMSPQSAHPHGVVFLHVTYVPAQEKNFPTAPAICHGDKAHFPREGVVFVSNGTHWVFTQRNFYE
PQIITDNTFVSGNCDVVIIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVLGDISGINASVNNIQQEIDRLNEVAKNLSLIDLQELGKYEYIKWPWYIWLGFIAGL
IAIVMVTIMLCCMTSCCCLCKGCCSCGCKCFDEDDSEPVLLKGVKLYHT

Source:

Protein name: Spike (or Surface) Glycoprotein

Variant: Omicron (B.1.1.529)

Gene name: S

Organism: Severe acute respiratory syndrome coronavirus 2 (2019-nCoV)

Reconstitution:

The peptide pools are supplied as lyophilized trifluoro acetate salts. Dissolve in a minimum amount of pure DMSO (approx. 40µL) and dilute with water to the desired concentration.

NOTE: Please pay attention that the final concentration of DMSO must be below 1% (v/v) to avoid toxicity in the biological system.

NOTE: Repeated thawing and freezing should be avoided.

Storage:

Store dry at -20°C

Handling:

Caution, not fully tested. Good laboratory technique should be employed in the safe handling of any lipopeptide product. If you are not fully trained or are unaware of the hazards involved, do not use this compound!

Caution: Do not take internally! Avoid contact by all modes of exposure. Wear appropriate laboratory attire including a lab coat, gloves, mask and safety glasses. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.

Usage:

This product is intended for research purposes by qualified personnel only. It is not intended for use in humans or as a diagnostic agent. Genaxxon bioscience GmbH is not liable for any damages resulting from misuse or handling of this product.