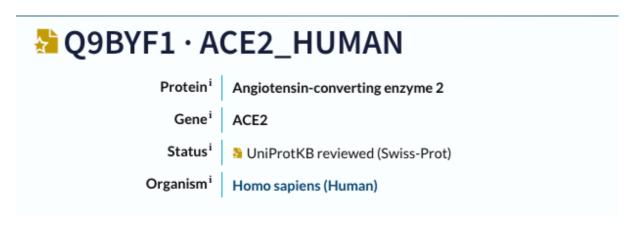
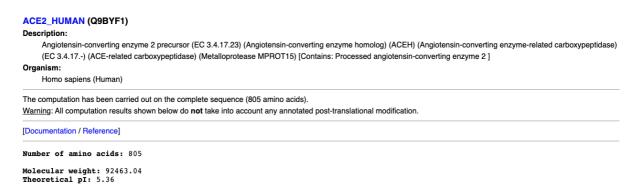
Raziskovanje ACE2

Odgovori:

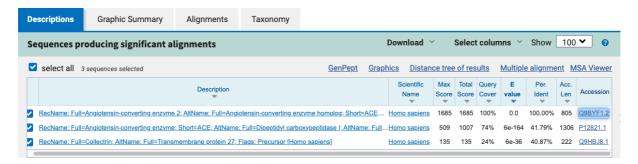
1. Uniprot ID: Q9BYF1, dolžina proteina 805 bp, tkiva: pljuča, srce, ledvica, črevesje, biološka funkcija: encim, ki uravnava krvni tlak in služi kot receptor za vstop virusa SARS-COV-2 v celice (uniprot).



2. Molska masa: 92463.04 kDa, izoelektrična točka (pl): 5.36, GRAVY indeks: -0,274 (neg. vrednost pomeni, da je protein hidrofilen, protparam).



- 3. Domene: peptidaza M2, Collectrin-like, sodi v družino metalopeptidaz M2 (uniprot, interpro).
- 4. Mišji homolog, Uniprot ID: Q8R010; homologa ACE2 pri človeku: Uniprot ID: P1282 (Angiotenzin), Uniprot ID: Q9HBJ8 (Collectrin) → Blast



5. Članek: SARS-CoV-2 pandemic and research gaps: Understanding SARS-CoV-2 interaction with the ACE2 receptor and implications for therapy (DOI: 10.7150/thno.48076).

Review > Theranostics. 2020 Jun 12;10(16):7448-7464. doi: 10.7150/thno.48076. eCollection 2020.

SARS-CoV-2 pandemic and research gaps: Understanding SARS-CoV-2 interaction with the ACE2 receptor and implications for therapy

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PMID: 32642005 PMCID: PMC7330865 DOI: 10.7150/thno.48076

6. Verige v kompleksu:

- veriga A: ACE2,
- veriga E: Spike protein SARS-CoV-2.



7. AK mesta: K31, E35, D38, Y41, Q42, Y83, K353, D355, R357. Mutacije zmanjšajo afiniteto vezave med ACE2 in spike proteinom, kar vpliva na učinkovitost vstopa virusa v celice.