


- The structure we have used as a basis for modeling studies has been 1NEK. I tried this in the PockeTome (<http://ablab.ucsd.edu/POCKETOME/>). There was no record for it.
- Try a search for “succinate”. Did you find SDH?



The screenshot displays the PockeTome web application interface. On the left is a navigation menu with links: About, Browse All, Find chemical, Access and format, Downloads, and Citation. The main content area features a search bar with 'succinate' entered and 'Pocketome' selected in the dropdown. Below the search bar, there are filters for 'Show only' (Human, Other mammals, Gram-positive bacteria, Gram-negative bacteria, Archaea, Virus, Other) and a list of search results. The results include protein names, domain/region information, PDB codes, and HET codes for various proteins like ARLY2_ANAPL_4_468, ASSY_THET8_1_400, PURA_ECOLI_2_432, DRAA_ECOLX_22_160, GTR3_HUMAN_1_489, and NCZS_STRCZ_35_147.

Search for
1nek
in
PDB codes
Go

About
Browse All
Find chemical
Access and format
Downloads
Citation

Search for
succinate
in
Pocketome
Go

Search Results

Show only: ☒ Human; ☒ Other mammals; ☒ Gram-positive bacteria; ☒ Gram-negative bacteria; ☒ Archaea; ☒ Virus; ☒ Other.

ARLY2_ANAPL_4_468 Argininosuccinate lyase [Lyase 1 family. Argininosuccinate lyase subfamily]
Domains/regions: [R] Substrate binding
PDB: 1auw, 1dcn, 1hy1, 1k7w, 1tju, 1tjv, 1tjw
HET: as1

ASSY_THET8_1_400 Argininosuccinate synthase [Argininosuccinate synthase family. Type 1 subfamily]
PDB: 1j1z, 1j20, 1j21, 1kh1, 1kh2, 1kh3, 1kor
HET: amp, anp, as1, atp, cir

PURA_ECOLI_2_432 Adenylosuccinate synthetase [Adenylosuccinate synthetase family]
Domains/regions: [R] IMP binding
PDB: 1ade, 1adi, 1cg0, 1cg1, 1cg3, 1cg4, 1ch8, 1cib, 1gim, 1gin, 1hon, 1hoo, 1hop, 1juy, ...
HET: amp, doi, dpo, gcp, gdp, gnh, gnp, gpx, h5p, hda, imo, imp, pgs, rpd, rpl

DRAA_ECOLX_22_160 Dr hemagglutinin structural subunit [Dr-adhesin family]
Domains/regions: [R] Receptor-binding
PDB: 1usq, 1ut1, 2jkl, 2jkn, 2w5p
HET: brx, cl8, clm

GTR3_HUMAN_1_489 Solute carrier family 2, facilitated glucose transporter member 3 [Major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily]
Domains/regions: [R] Important for selectivity against fructose, [R] Monosaccharide binding
PDB: 4zw9, 4zwb, 4zwc, 5c65
HET: y01


NCZS_STRCZ_35_147 Neocarzinostatin [Neocarzinostatin family]
PDB: 1nco, 1noa, 2cbm, 2cbo, 2cbq, 4jw3
HET: chr, mrd, th2

TRY1_BOVIN_66_246 Cationic trypsin [Peptidase S1 family]
Domains/regions: [D] Peptidase S1, [R] Substrate binding
PDB: 1aq7, 1auj, 1az8, 1bjv, 1btv, 1btw, 1btv, 1btv, 1btz, 1c1n, 1c1o, 1c1p, 1c1q, 1c1r, 1c...
HET: Oca, Ocb, 123, 124, 12u, 132, 13u, 169, 22m, 23m, 312, 334, 3yh, 49u, 607, 623, 653, 655...

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- Try a search for “succinate”. Did you find SDH?
- I didn’t find it either



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- ARLY2_ANAPL_4_468** Argininosuccinate lyase [Lyase 1 family. Argininosuccinate lyase subfamily]
Domains/regions: [R] Substrate binding
PDB: 1auw, 1dcn, 1hy1, 1k7w, 1tju, 1tjv, 1tjw
HET: as1
- ASSY_THET8_1_400** Argininosuccinate synthase [Argininosuccinate synthase family. Type 1 subfamily]
PDB: 1j1z, 1j20, 1j21, 1kh1, 1kh2, 1kh3, 1kor
HET: amp, anp, as1, atp, cir
- PURA_ECOLI_2_432** Adenylosuccinate synthetase [Adenylosuccinate synthetase family]
Domains/regions: [R] IMP binding
PDB: 1ade, 1adi, 1cg0, 1cg1, 1cg3, 1cg4, 1ch8, 1cib, 1gim, 1gin, 1hon, 1hoo, 1hop, 1juy, ...
HET: amp, doi, dpo, gcp, gdp, gnh, gnp, gpx, h5p, hda, imo, imp, pgs, rpd, rpl
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Domains/regions: [R] Important for selectivity against fructose, [R] Monosaccharide binding
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HET: y01
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HET: Oca, Ocb, 123, 124, 12u, 132, 13u, 169, 22m, 23m, 312, 334, 3yh, 49u, 607, 623, 653, 655...

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