


- 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?
- I didn’t find it either



The screenshot displays the PockeTome web application interface. On the left, there is a navigation menu with links: About, Browse All, Find chemical, Access and format, Downloads, and Citation. The main search area has two input fields: 'Search for' (containing '1nek') and 'in' (set to 'PDB codes'). A 'Go' button is present. Below this, a second search area shows 'Search for' (containing 'succinate') and 'in' (set to 'Pocketome'), also with a 'Go' button. The right side of the page shows 'Search Results' with a list of proteins. Each entry includes a protein ID, name, family, domains/regions, PDB codes, and HET codes. The results are filtered by 'Show only' options: Human, Other mammals, Gram-positive bacteria, Gram-negative bacteria, Archaea, Virus, and Other.

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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- Now try “NADH ubiquinone” in the Therapeutic Target Database (<http://idrblab.net/ttd/>)
- Did you find SDH?



The screenshot shows the homepage of the Therapeutic Target Database (TTD). The header features the TTD logo (a cluster of orange dots) and the text "Therapeutic Target Database". To the right are logos for BIDD (Bioinformatics and Drug Design group) and IDRBLAB. Below the header is a navigation bar with links: Home, Advanced Search, Target Group, Drug Group, Patient Data, Model & Study, and Download. The main content area has an orange bar that says "Search Whole Database". Below this is a search form with the label "Search for Targets: ?". The search input field contains the text "succinate dehydrogenase". To the right of the input field are "Search" and "Reset" buttons. At the bottom of the search area, there are examples: "Examples: EGFR; Vascular endothelial growth factor; Peramivir; Renal cell carcinoma ...".