

# SMTL ID : 2dn2.1

1.25A resolution crystal structure of human hemoglobin in the deoxy form

## Coordinates

PDB Format  Compare

## Method

X-RAY DIFFRACTION 1.25 Å

## Oligo State

hetero-2-2-mer

## Ligands ▾

4 x HEM  PROTOPORPHYRIN IX CONTAINING FE (Non-covalent)

## Links

RCSB  PDBe  PDBe-KB  PDBj  PDBsum  CATH  PLIP

## Citation

Park, S.-Y. et al., 1.25 a resolution crystal structures of human haemoglobin in the oxy, deoxy and carbonmonoxy forms. J.Mol.Biol. (2006)  doi:<https://doi.org/10.1016/j.jmb.2006.04.031>

## Release Date

2006-05-09

## Peptides

Hemoglobin alpha subunit: A  C

Hemoglobin beta subunit: B  D

## SMTL:PDB

SMTL Chain Id: A C B D

PDB Chain Id: A C B D

## Hemoglobin alpha subunit

### Toggle Identical (AC)

Seqres	V L S P A D K T N V K A A W G K V G A H A G E Y G A E A L E	30
2dn2.1.(AC)	V L S P A D K T N V K A A W G K V G A H A G E Y G A E A L E	30
Seqres	R M F L S F P T T K T Y F P H F D L S H G S A Q V K G H G K	60
2dn2.1.(AC)	R M F L S F P T T K T Y F P H F D L S H G S A Q V K G H G K	60
Seqres	K V A D A L T N A V A H V D D M P N A L S A L S D L H A H K	90
2dn2.1.(AC)	K V A D A L T N A V A H V D D M P N A L S A L S D L H A H K	90
Seqres	L R V D P V N F K L L S H C L L V T L A A H L P A E F T P A	120
2dn2.1.(AC)	L R V D P V N F K L L S H C L L V T L A A H L P A E F T P A	120
Seqres	V H A S L D K F L A S V S T V L T S K Y R	141
2dn2.1.(AC)	V H A S L D K F L A S V S T V L T S K Y R	141

## Hemoglobin beta subunit

### Toggle Identical (BD)

Seqres	VHLTPPEEKSAVTALWGKVNVDVGGEALGR	30
2dn2.1.(BD)	VHLTPPEEKSAVTALWGKVNDEVGGEALGR	30
Seqres	LLVVYPWTQRFESFGDLSTPDAVMGNPKV	60
2dn2.1.(BD)	LLVVYPWTQRFESFGDLSTPDAVMGNPKV	60
Seqres	KAHGKKVLGAFSDGLAHLNDNLKGTFATLSE	90
2dn2.1.(BD)	KAHGKKVLGAFSDGLAHLNDNLKGTFATLSE	90
Seqres	LHCDKLHVDPENFRLLGNVLVCVLAHHFGK	120
2dn2.1.(BD)	LHCDKLHVDPENFRLLGNVLVCVLAHHFGK	120
Seqres	EFTPPVQAAQKVAGVANALAHKYH	146
2dn2.1.(BD)	EFTPPVQAAQKVAGVANALAHKYH	146

### Related Entries With Identical Sequence

1a00.1 | 1a01.1 | 1a0u.1 | 1a0z.1 | 1a3n.1 | 1a3o.1 | 1a9w.1 | 1aj9.1 | 1b86.1 | 1bab.1 | 1bbb.1 | 1bij.1 | 1buw.1 |  
1bz0.1 | 1bz1.1 | 1bzz.1 | 1cbl.1 | 1cbm.1 | 1cls.1 | 1cmv.1 | 1coh.1 | 1dke.1 | 1dxt.1 | 1dxu.1 | 1dxx.1 | 1fdh.1 | 1fn3.1  
| 1g9v.1 | 1gbu.1 | 1gbv.1 more...

