

## Isolation of cDNAs encoding human manganese superoxide dismutase

Konrad Heckl\*

Ernst-Boehringer-Institut für Arzneimittelforschung, Dr.Boehringerstrasse 5-11, A-1121 Vienna, Austria  
Submitted June 8, 1988 Accession no.X07834

Three different metallo forms of Superoxide Dismutase are known (1). We have isolated cDNAs encoding human Manganese Superoxide Dismutase (EC, 1.15.1.1) from a placental cDNA library by hybridization with synthetic oligonucleotide probes. Probes were constructed according to the published amino acid sequence (2). DNA sequence analysis revealed the isolation of cDNAs with identical coding region, however, exhibiting different 3'-untranslated regions. The predicted mature protein contains 198 amino acids and has a N-terminal leader sequence of 24 amino acids (arrowed). There are differences to the reported amino acid sequence.

\*Present address: European Molecular Biology Laboratory, Meyerhofstrasse 1, PO Box 10.2209, D-6900 Heidelberg, FRG

## References

- Steinmann, H.M. (1982) *Superoxide Dismutases 1*, 13-15 (Oberley, L.W., editor, CRC Press Inc.).
  - Bazza, D. et al. (1984) *J. Biol. Chem.* **259**, 12595-12601.