



>>Entry Name: Superoxide dismutase

Synonym(s): SOD. **Orgotein**, BAN, INN, USAN. Ormetein A. Artrolasi. Interceptor. Ontosein. Orgoten. Oxinorm. **Peroxinorm**‡

CAS Registry Number: 9054-89-1

Related CAS Registry Numbers(s): 9016-01-7 110294-55-8

Molecular Formula: [Cu<sub>2</sub>Zn<sub>2</sub>]

tetrahedral (3 His, 1 Asp). Cu & Zn coord. to same imidazole ring of His-61

**Use/Importance:** Antiinflammatory agent. Destroys superoxide (O<sup>2(-)</sup>) radicals to form H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub>. Attenuates oxidative damage *in vivo*. May be a factor in ageing and onset of degenerative diseases

**Other Data:** MW *ca.* 33000. Drug used is from bovine sources. Human clone version of *N*-acetylsuperoxide dismutase is known as Sudismase

Fluka: 86198

Sigma: S5639

>>Derivative: Polyethylene glycol-conjugated superoxide dismutase

Synonym(s): **Pegorgotein**, INN. PEG-SOD

CAS Registry Number: 155773-57-2

**Use/Importance:** Used in the treatment of severe closed head injury

References:

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