



>>Entry Name: Ribonuclease A

CAS Registry Number: 9001-99-4

Chem., 1963, **238**, 227

Biological Source: Enzyme isol. from bovine pancreas

Use/Importance: Degrades ribonucleic acid

Fluka: 83833

Sigma: R4875

>>**Derivative:** Sulfoxide

Synonym(s): Ribonuclease A S-peptide(ox), 9CI

CAS Registry Number: 65742-22-5

Optical Rotation: $[\alpha]_{\text{D}}^{21} -43.1$ (c, 1.04 in 10% AcOH)

Sigma: R6125

References:

- Richards, F.M., *Proc. Natl. Acad. Sci. U.S.A.*, 1958, **44**, 162
Scheraga, H.A. *et al.*, *Adv. Enzymol. Relat. Subj. Biochem.*, 1962, **24**, 161, (rev)
Smyth, D.G. *et al.*, *J. Biol. Chem.*, 1962, **237**, 1845; 1963, **238**, 227
Hofmann, K. *et al.*, *J.A.C.S.*, 1966, **88**, 4107, (synth)
Avey, H.P. *et al.*, *Nature (London)*, 1967, **213**, 557, (cryst struct)
Kartha, G. *et al.*, *Nature (London)*, 1967, **213**, 862, (cryst struct)
Kartha, G., *Nature (London)*, 1967, **214**, 234; 330
Kelley, J.A. *et al.*, *Biomed. Mass Spectrom.*, 1975, **2**, 313, (ms)
Yajima, H. *et al.*, *Chem. Pharm. Bull.*, 1981, **29**, 600, (synth)
Wlodawev, A. *et al.*, *Biochemistry*, 1988, **27**, 2705, (cryst struct)
Creighton, T.E., *Proc. Natl. Acad. Sci. U.S.A.*, 1988, **85**, 5082, (conformn)
Montelione, G.T. *et al.*, *Acc. Chem. Res.*, 1989, 22; 70, (conformn)
Robertson, A.D. *et al.*, *Biochemistry*, 1989, **28**, 5930, (nmr)
Vasanthan, N. *et al.*, *Gene*, 1989, **76**, 53, (cloning)