



>>Entry Name: **Trichosanthin**

Synonym(s): Compound Q. α -Trichosanthin. GLQ 223

CAS Registry Number: 60318-52-7

Biological Source: Isol. from *Trichosanthes kirilowii* root tubers

Use/Importance: Ribosome synthesis inhibitor. Possesses abortifacient, immunomodulatory, antineoplastic, antiviral and anti-HIV props.

Physical Description: Monoclinic cryst.

Development Status: Phase I/II clinical trial (HIV) 1990

Solubility: BERDY SOL: Poorly sol. Me₂CO, hexane

UV: [neutral] $\lambda_{\max}$ 278 (ϵ 17300) (H₂O) (Berdy)

Hazard & Toxicity: Exp. reprod. and teratogenic effects ; BERDY HAZD : LD₅₀ (mus, ipr) 2.5 mg/kg

Sigma: T3797

References:

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Byers, V.S. *et al.*, *AIDS*, 1990, **4**, 1189, (pharmacol, clin trial)
Collins, E.J. *et al.*, *J. Biol. Chem.*, 1990, **265**, 8665, (struct)
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Shaw, P.C. *et al.*, *Life Sci.*, 1994, **55**, 253, (rev, pharmacol)
Zhou, K. *et al.*, *Proteins*, 1994, **19**, 4, (cryst struct)
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