

**DATA SHEET**

**Product Name:** Tubulin, Porcine

**Catalog #:** T-1201

**Source:** Porcine brain tubulin is isolated from porcine brains. Fully active for polymerization.

**Molecular Mass:** 55 kD, heterodimer is ~110 kD

**Protein Purity:** >97% by SDS-PAGE

**Counter Ion:** 100mM PIPES, pH 6,9; 2mM EGTA, 1mM MgSO<sub>4</sub>.

**Supplied As:** Liquid

**Storage:** -70°C

**Activity:** One unit of tubulin is defined as 1.0 mg of purified protein. It should be noted that tubulin is not able to be polymerized in PIPES buffer until very high tubulin concentration above 10 mg/ml. Efficient polymerization at low tubulin concentrations (1mg/ml) can be achieved by addition of a polymerization stimulating compound such as tau protein.

**Description:** Tubulin, a globular protein, polymerizes into long chains or filaments that form microtubules, hollow fibers which serve as a skeletal system for living cells. Tubulin is composed of a heterodimer of two closely related 55K dalton proteins called alpha and beta tubulin. These two proteins are encoded by separate genes, whose sequences are highly conserved in all eukaryotes.

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