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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:	Final buffer: 100mM PIPES, pH 6,9; 2mM EGTA, 1mM MgSO ₄ .
Supplied As:	Liquid
Storage:	-70°C
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 eukaryots.
Biological activity:	One unit of tubulin is defined as 1,0 mg of purified protein. It should be noted that tubulin is not able to polymerized in PIPES buffer until very high tubulin concentration above 10 mg/ml. Efficient polymerisation at low tubulin concentrations (1mg/ml) can be achieved by addition of a polymerization stimulating compound such as tau protein.

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