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Basic Study

The polyglutamylase activity of tubulin tyrosine ligase like 4 is negatively regulated by the ⁵ never in mitosis gene A family kinase never in mitosis gene A -related kinase

Melo-Hanchuk TD *et al.* NEK5 regulates TLL4 through phosphorylation

Talita Diniz Melo-Hanchuk, Jörg Kobarg

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The enzyme tubulin tyrosine ligase-like **family**, member 1 (Ttll1) has tubulin glutamylation **activity**, and the cilia of Ttll1 knockout (Ttll1-KO) mice lose beating asymmetry, leading to a ...

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unlikely that this is the cause of the failure to generate **polyglutamylase activity**. However, ... the **NIMA** (Never in Mitosis A)-related **kinase** NEKL-4/NEK10. ... accurate and **regulated** by synaptic ...

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Consistent with this, **NIMA kinase** of the filamentous fungus *Aspergillus nidulans*, a representative member of the **NEK family**, has been shown to regulate directional growth of hyphae during ...

[A NIMA-Related Kinase Suppresses the Flagellar Instability ...](#)

europepmc.org/articles/PMC4562644

Sep 01, 2015 · In human cell lines, knockdown of NEK4, a **NIMA-like kinase**, confers paclitaxel resistance and show defects in repolymerizing microtubules after nocadazole treatment . In *Arabidopsis thaliana*, nek4, nek5, and nek6 all show hypersensitivity to paclitaxel . Various NEK proteins play a role in microtubule stability.

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