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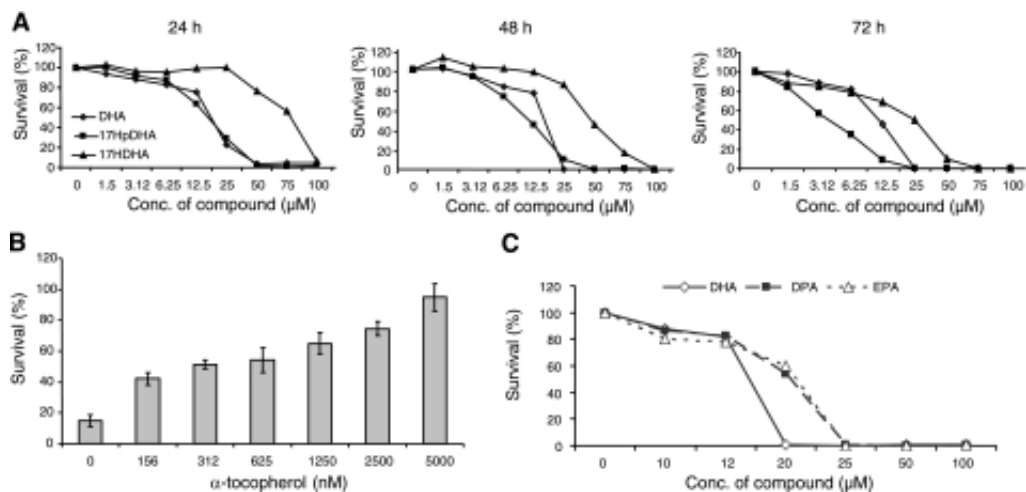
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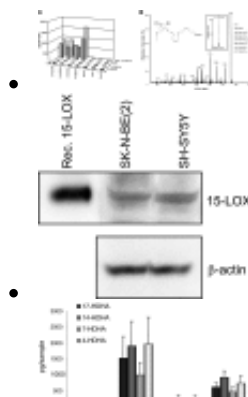
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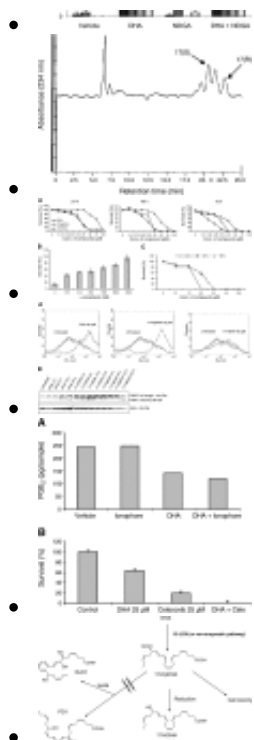
**Figure 5.**



17-HpDHA shows high dose- and time-dependent cytotoxic potency, and can be inhibited through the antioxidant  $\alpha$ -tocopherol. **A**) SK-N-BE(2) cells were seeded in 96-well plates and allowed to attach overnight. Medium was then changed to fresh medium containing DHA, 17-HpDHA, or 17-HDHA (1.5–100  $\mu\text{M}$ ). Cell survival was measured at 24, 48, and 72 h, as indicated by MTT proliferation assay. 17-HpDHA showed the highest cytotoxic potency, whereas 17-HDHA was less cytotoxic than DHA.  $\text{IC}_{50}$  values: DHA, 12–15  $\mu\text{M}$ ; 17-HpDHA, 3–6  $\mu\text{M}$ ; 17-HDHA, 25  $\mu\text{M}$ . **B**) SK-N-BE(2) cells were seeded in 96-well plates and allowed to attach overnight. Medium was then changed to fresh medium containing 17-HpDHA (12  $\mu\text{M}$ ) combined with increasing concentrations of  $\alpha$ -tocopherol (0.0–5.0  $\mu\text{M}$ ). Cell survival was measured at 48 h by MTT proliferation assay.  $\alpha$ -Tocopherol rescued cells from 17-HpDHA-induced cytotoxicity in a dose-dependent manner. **C**) SK-N-BE(2) cells were seeded in 96-well plates and allowed to attach overnight. Medium was then changed to fresh medium containing the three different long-chain fatty acids DHA (22:6), EPA (20:5), or DPA (22:5) in concentrations between 0 and 100  $\mu\text{M}$ . Cell survival was measured at 72 h by MTT proliferation assay. Increased number of double bonds was associated with increased cytotoxicity, as DHA was more toxic to EPA and DPA, which exerted similar cytotoxicity.

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