

**Supplementary Table 1. Summary of hit compounds from Pin1-Tau PCA screen**

<b>Compound</b>	<b>Class</b>	<b>Mechanism of action</b>	<b>Primary screen</b> (fold of control; average ± st dev)	<b>Supplier</b>
Acetylsulfisoxazole	Antibacterial	Sulfonamide	2.6 ± 1.2	University of Helsinki Pharmacy, Finland
Allobarbital	Barbiturate	GABA <sub>A</sub> R modulation	3.1 ± 1.2	University of Helsinki Pharmacy, Finland
Atropine methyl nitrate	Anticholinergic	Muscarinic antagonist	2.8 ± 0.8	Merck, USA
Busulfan	Alkyl sulfonate	Antineoplastic	2.6 ± 0.6	University of Helsinki Pharmacy, Finland
Butethal	Barbiturate	GABA <sub>A</sub> R modulation	3.4 ± 0.9	University of Helsinki Pharmacy, Finland
Butidrine	Adrenergic	β antagonist	2.7 ± 0.6	Simes, Italy
Cetrimonium bromide	Topical antiseptic	Cationic surfactant	5.2 ± 1.2	University of Helsinki Pharmacy, Finland
Chlorothiazide	Diurete	Na <sup>+</sup> -Cl <sup>-</sup> Symporter inhibition	2.6 ± 0.7	Byron Chemical Company, USA
Cinchophen	Analgesic	-	2.7 ± 0.8	H. Lundbeck, Denmark
Clopentixol dihydrochloride	Antipsychotic	D1R/D2R antagonist	3.7 ± 0.5	H. Lundbeck, Denmark
Dequalinium chloride	Antiseptic	Bisquaternary quinolinium	2.6 ± 0.9	Oriola, Finland
Desalkylflurazepam	Benzodiazepine	GABA <sub>A</sub> R modulation	3.5 ± 1.1	University of Helsinki Pharmacy, Finland
Dexbrompheniramine maleate	Antiallergic	Histamine H1R antagonist	3.4 ± 0.6	University of Helsinki Pharmacy, Finland
Dexchlorpheniramine maleate	Antiallergic	Histamine H1R antagonist	2.5 ± 0.7	Tamro, Finland
Diazepam	Benzodiazepine	GABA <sub>A</sub> R modulation	2.9 ± 0.9	Farmos, Finland
Dicumarol	Anticoagulant	Competitive inhibitor of vitamin K	0.7 ± 0.1	Merck, USA
Folic acid	Vitamin	One-carbon metabolism	0.7 ± 0.2	University of Helsinki Pharmacy, Finland
Mepivacaine HCl	Local anesthetic	Na <sup>+</sup> -channel inhibition	0.7 ± 0.1	Ab Bofors, Sweden
Octopamine HCl	Biogenic amine	Adrenergic	2.1 ± 0.6	Supro Troponwerke Köln, Germany
Pentobarbital	Barbiturate	GABA <sub>A</sub> R modulation	2.1 ± 0.3	Sigma, USA
Phthalylsulfathiazole	Antibacterial	Sulfonamide	2.2 ± 0.5	Arkadia Pharmacy, Finland
Selegiline HCl	Antiparkinsonian	MAO inhibition	3.5 ± 1.6	Orion Pharma, Finland
Sulfameter	Antibacterial	Sulfonamide	2.1 ± 0.2	Orion Pharma, Finland
Tolbutamide	Hypoglycemic	K <sup>+</sup> -channel blocker	2.2 ± 0.6	Novo Nordisk, Denmark