

Figure S1. RT-qPCR and Western Blot to verify proteomics. A: Immunoblot of ApoE, p16 ARC, CDC42, Rac1 and RhoA. B: RT-qPCR of RhoA, RPS6, MBP, KIF5A, BMPR2 and Rictor. C: Quantification of ApoE immunoblots. D: Quantification of p16 ARC immunoblots. E: Quantification of CDC42 immunoblots. F: Quantification of immunoblot of Rac1. G: Quantification of immunoblot of RhoA.

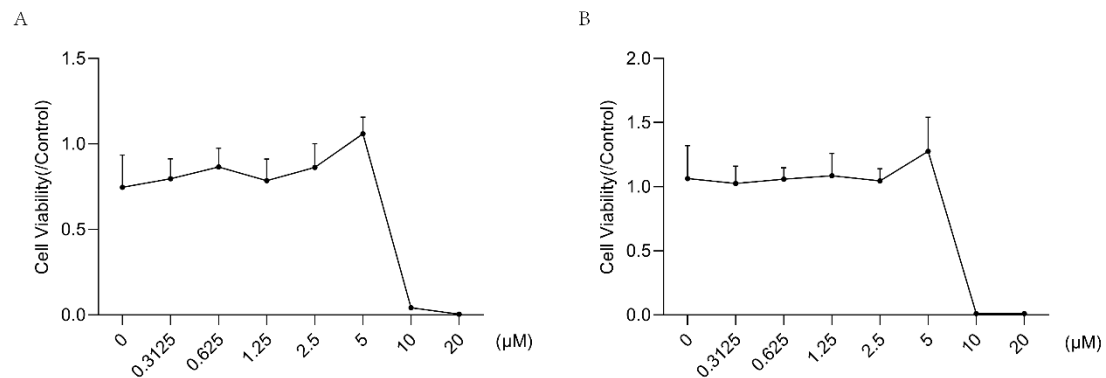


Figure S2. Proliferative and toxic effects of different concentrations of AKBA on PC12 cells. A: Cell viability of PC12 cells after 12 h of different concentrations of AKBA. B: Cell viability of PC12 cells after 24 h of different concentrations of AKBA. B: cell viability of PC12 cells after 24 h of AKBA.

Table S1 Primer sequence list.

Target gene	Primer sequence
Rho A	Forward: 5'-AGGATTGGCGCTTTTGGGTA-3' Reverse: 3'-ATGAGGCACCCCGACTTTTT-5'
RPS6	Forward: 5'-GCGCCTGCTTTTGAGTAAGG-3' Reverse: 3'-CAGGTTGGCATCCACAATGC-5'
MBP	Forward: 5'-CGCAGAGGACCCAAGATGAA-3' Reverse: 3'-AAATCTGCTGAGGGACAGGC-5'
KIF5A	Forward: 5'-CACGACTCAGGAGCAGGTTT-3' Reverse: 3'-TGGTTGAAGATGTCTCGGGC-5'
BMPR2	Forward: 5'-CAAGAACGGCTGTGTGCATT-3' Reverse: 3'-CAGACCATAACATGTGCTCCCT-5'
Rictor	Forward: 5'-TGCACCCATCCTTGTCTCAC-3' Reverse: 3'-CTGATTCCCCCGACATGCTT-5'
GAPDH	Forward: 5'-GCATCTTCTTGTGCAGTGCC-3' Reverse: 3'-GATGGTGATGGGTTTCCCGT-5'