

CISD2 (CDGSH iron sulfur domain 2)

CISD2 is known to have roles in calcium metabolism, anti-apoptosis, and longevity.

(1) CISD2 exerts anti-apoptotic and anti-inflammatory effects in neural cells.

Neuronal CISD2 plays a minor anti-inflammatory role in LPS-stimulated neuron-like SH-SY5Y cells ¹⁾.

Curcumin can attenuate the downregulation of CISD2 in SCI and LPS-treated astrocytes ²⁾.

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Kuo CY, Kung WM, Lin MS. Neuronal CISD2 plays a minor anti-inflammatory role in LPS-stimulated neuron-like SH-SY5Y cells. J Neurol Sci. 2019 Oct 26;408:116549. doi: 10.1016/j.jns.2019.116549. [Epub ahead of print] PubMed PMID: 31683052.

²⁾

Lin CC, Chiang TH, Chen WJ, Sun YY, Lee YH, Lin MS. CISD2 serves a novel role as a suppressor of nitric oxide signalling and curcumin increases CISD2 expression in spinal cord injuries. Injury. 2015 Aug 8. pii: S0020-1383(15)00469-6. doi: 10.1016/j.injury.2015.07.040. [Epub ahead of print] PubMed PMID: 26387034.

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