

## CPT2

Cat. No.:	HY-108433
CAS No.:	1670277-66-3
Target:	Apoptosis; MDM-2/p53
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

# CPT2

### BIOLOGICAL ACTIVITY

#### Description

CPT2 (Carnitine palmitoyltransferase 2), an enzyme that participates in fatty acid oxidation, also is a colorectal cancer (CRC) prognostic biomarker. CPT2 overexpression can activate p-p53 to increase p53 expression, thereby inhibiting tumor proliferation and promoting apoptosis. CPT2 deficiency results in the most common inherited disorder of long-chain fatty acid oxidation affecting skeletal muscle. Downregulation of CPT2 is also highly correlated with the progression of various cancers and has potential for cancer research<sup>[1][2]</sup>.

### REFERENCES

- [1]. Liu F, et al. Downregulation of CPT2 promotes proliferation and inhibits apoptosis through p53 pathway in colorectal cancer. *Cell Signal*. 2022 Apr;92:110267.
- [2]. Joshi PR, et al. Muscle Carnitine Palmitoyltransferase II (CPT II) Deficiency: A Conceptual Approach. *Molecules*. 2020 Apr 13;25(8):1784.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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