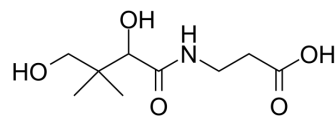


## (±)-Pantothenic acid

Cat. No.:	HY-B0430B
CAS No.:	599-54-2
Molecular Formula:	C <sub>9</sub> H <sub>17</sub> NO <sub>5</sub>
Molecular Weight:	219.23
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(±)-Pantothenic acid ((±)-Pantothenate), a B-vitamin, is an essential vitamin required for the biosynthesis of coenzyme A (CoA) in mammalian cells. Pantothenic acid has protective activity against valproic acid (VPA)-induced neural tube defects (NTD) in CD-1 mice <sup>[1]</sup> .
<b>In Vivo</b>	(±)-Pantothenic acid (3 × 200 mg/kg; IP, single dosage) blocks VPA-induced decreases in c-Myb and Pim-1 protein expression; reduces the incidence of NTD to 6.8% in VPA-injected CD-1 mice, while incidence of the untreated group is 23.6% <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Tahiliani AG, Beinlich CJ. Pantothenic acid in health and disease. *Vitam Horm.* 1991;46:165-228.

[2]. Dawson JE, et al. Folic acid and pantothenic acid protection against valproic acid-induced neural tube defects in CD-1 mice. *Toxicol Appl Pharmacol.* 2006 Mar 1;211(2):124-32.

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

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