

## Oxaloacetate decarboxylase

|           |   |                            |
|-----------|---|----------------------------|
| Cat. No.: | HY-P2837  |                            |
| CAS No.:  | 9024-98-0   |                            |
| Target:   | Endogenous Metabolite   |                            |
| Pathway:  | Metabolic Enzyme/Protease   | Oxaloacetate decarboxylase |
| Storage:  | Please store the product under the recommended conditions in the Certificate of Analysis. |                            |

### BIOLOGICAL ACTIVITY

#### Description

Oxaloacetate decarboxylase catalyzes the irreversible decarboxylation of oxaloacetate to pyruvate and CO<sub>2</sub>. Oxaloacetate decarboxylase is a member of the sodium ion transport decarboxylase (NaT-DC) enzyme family. Oxaloacetate decarboxylase converts the chemical energy of the decarboxylation reaction into an electrochemical gradient of Na<sup>+</sup> ions across the membrane<sup>[1][2]</sup>.

### REFERENCES

[1]. Klaffl S, et al. Genetic and functional analysis of the soluble oxaloacetate decarboxylase from *Corynebacterium glutamicum*. *J Bacteriol.* 2010 May;192(10):2604-12.

[2]. Granjon T, et al. Structure-function relations in oxaloacetate decarboxylase complex. Fluorescence and infrared approaches to monitor oxomalonate and Na(+) binding effect. *PLoS One.* 2010 Jun 3;5(6):e10935.

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

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