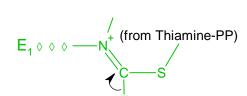
## Pyruvate Oxidase Particle

E3.

## a.k.a Pyruvate Dehydrogenase Complex

operates only under aerobic conditions (+ O<sub>2</sub>)



## **Enzyme**

E1. Pyruvate Decarboxylase **Contains** 

Thiamine-PP

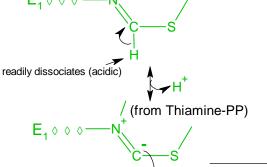
E2. Dihydrolipoyl transacetylase Lipoic Acid, binds CoA

Dihydrolipoyl dehydrogenase

FAD covalently bound, binds NAD<sup>+</sup>

## Note: The α-Ketoglutarate Oxidase

Particle operates via the same mechanism, simply replace pyruvate with α-ketoglutarate



pyruvate |

CO<sub>2</sub>-

