

Pyruvate Oxidase Particle

a.k.a Pyruvate Dehydrogenase Complex

operates only under aerobic conditions (+ O₂)

Enzyme	Contains
E1. Pyruvate Decarboxylase	Thiamine-PP
E2. Dihydrolipoyl transacetylase	Lipoic Acid, binds CoA
E3. Dihydrolipoyl dehydrogenase	FAD covalently bound, binds NAD ⁺

Note: The α -Ketoglutarate Oxidase Particle operates via the same mechanism, simply replace pyruvate with α -ketoglutarate

