

CONCEPT: INTRO TO COENZYMES

- Many reactions we will see involve redox reactions catalyzed by dehydrogenases, require _____ to become active.

Types of Coenzymes

- The most common coenzymes we will need to know are the following:

Types of Coenzymes	
Coenzyme	Structure
ATP Adenosine Triphosphate	<p>Adenosine</p> <p>Triphosphate</p> <p>Adenine</p> <p>Ribose</p>
NAD⁺ Nicotinamide adenine dinucleotide	<p>Nicotinamide</p> <p>ADP</p> <p>Ribose</p>
FAD Flavin adenine dinucleotide	<p>Flavin</p> <p>ADP</p> <p>Ribitol</p>
Coenzyme A	<p>Aminoethanethiol</p> <p>Pantoic acid</p> <p>ADP</p>

EXAMPLE: Identify the substrate, coenzyme and product for the following reaction which involves the enzyme succinate dehydrogenase.

