







 T₄ (precursor) to T₃ (active hormone) within cells by deiodinases (5'-iodinase) cross cell membranes via amino acid importins nuclear envelopes through receptors

 further processed by decarboxylation & deiodination → iodothyronamine (T_{1a}) and thyronamine (T_{0a})

Hormonal Effects 1) basal metabolic rate 2) protein synthesis 3) body's sensitivity to catecholamines (e.g. cortisol by permissiveness) 4) proper cellular development & differentiation 5) regulate protein, fat & carbohydrate metabolism 6) thyronamines function ?? mechanism to inhibit neuronal activity e.g. mammalian hibernation cycles ? administering the thyronamines: severe drop in body temperature





















