DHEAS production pathway. DHEA is the most abundant weak androgen precursor produced by the adrenal gland. Excess DHEA is sulfated by the enzyme SULT2A1, producing an inactive by-product, DHEAS, in the presence of a sulfate donor, PAPS. PAPS is generated by the PAPSS2 enzyme, which has ATP sulfurylase and APS kinase activities. This safeguarding reaction prevents excess DHEA from being used as a precursor to synthesize more potent androgens, such as androstenedione and testosterone, in adrenal, gonads and peripheral tissues.

Bone Phenotype is Always Present But Androgen Excess is Less Frequently Seen in PAPSS2 Deficiency
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