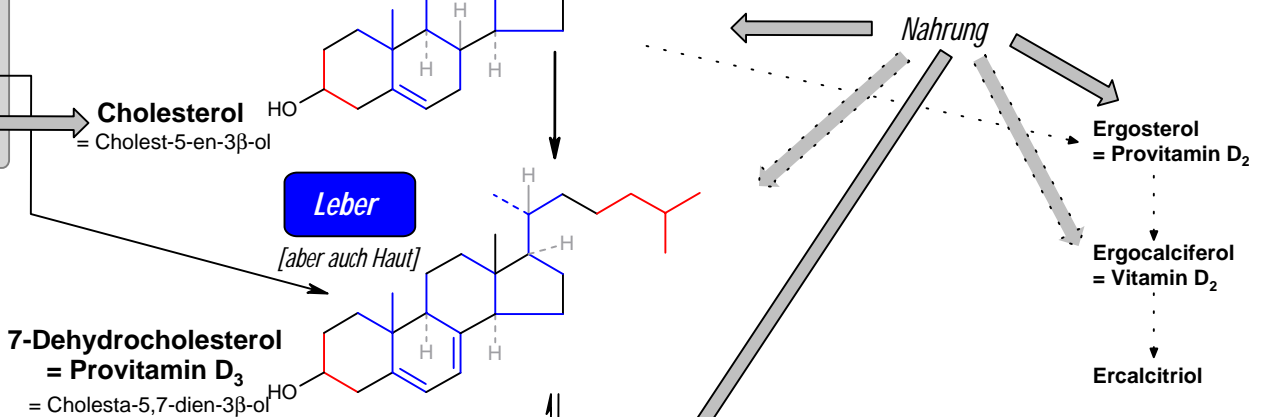
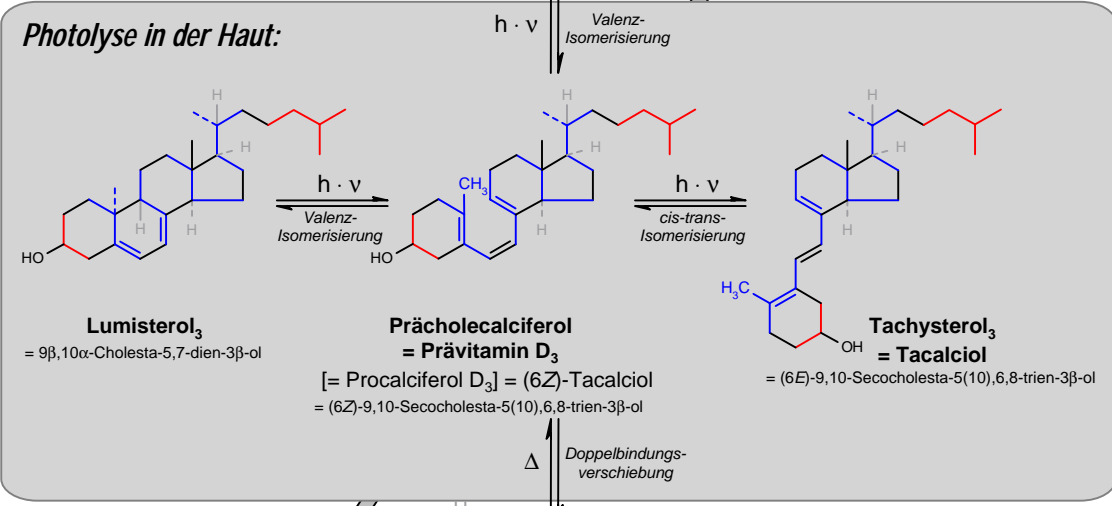


**endogene Biosynthese**  
 [v.a. in der Leber,  
 aber auch in allen extrahepatischen Geweben]

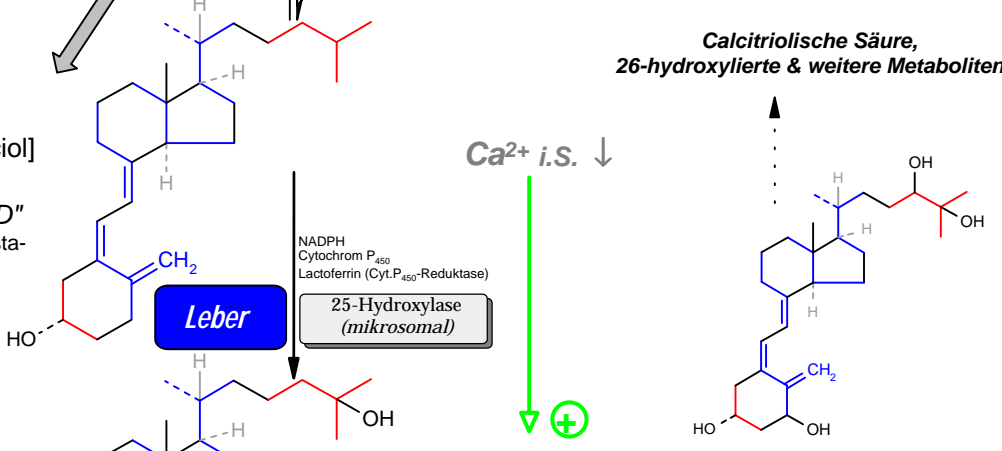
**Metabolismus des Vitamin D**



**Haut**  
 (nonenzymatisch,  
 durch UV-Licht)

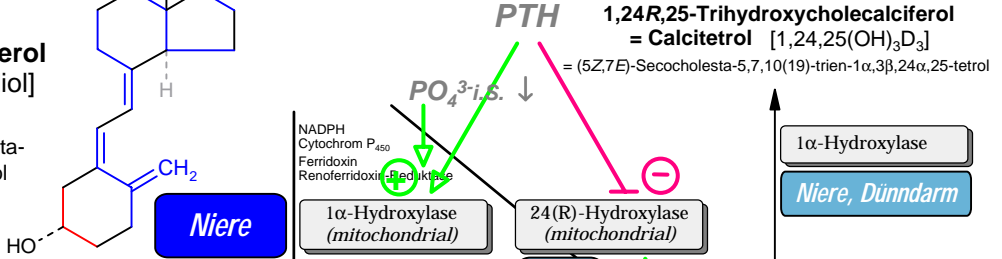


**Cholecalciferol**  
 = Calciferol [= Cholecalciferol]  
 = Vitamin D<sub>3</sub> [D<sub>3</sub>]  
 = "tierisches Vitamin D"  
 = (5Z,7E)-9,10-Secocholesta-5,7,10(19)-trien-3β-ol



**Speicherform**  
 (v.a. in der Leber),  
 zirkuliert im Blut  
 gebunden an **Vit.D-bind. Protein [DBP]**,  
 ein α-Globulin

**25-Hydroxycholecalciferol**  
 = Calcidiol [= Calciferdiol]  
 [25OHD<sub>3</sub>]  
 = (5Z,7E)-9,10-Secocholesta-5,7,10(19)-trien-3β,25-diol



Ca<sup>2+</sup>-Resorption im Darm,  
 PO<sub>4</sub><sup>3-</sup>-Resorption im Darm,  
 Ca<sup>2+</sup>-Rückresorption in der Niere,  
 PO<sub>4</sub><sup>3-</sup>-Rückresorption in der Niere (nur in Abwesenheit von PTH!),  
 Ca<sup>2+</sup>-Mobilisation aus dem Knochen (v.a. in Anwesenheit von PTH),  
 Ca<sup>2+</sup> & PO<sub>4</sub><sup>3-</sup> i.s. ↑

**1,25-Dihydroxycholecalciferol**  
 = Calcitriol [= Soltriol]  
 = "Vitamin-D-Hormon"  
 [1,25(OH)<sub>2</sub>D<sub>3</sub>]  
 = (5Z,7E)-9,10-Secocholesta-5,7,10(19)-trien-1α,3β,25-triol

