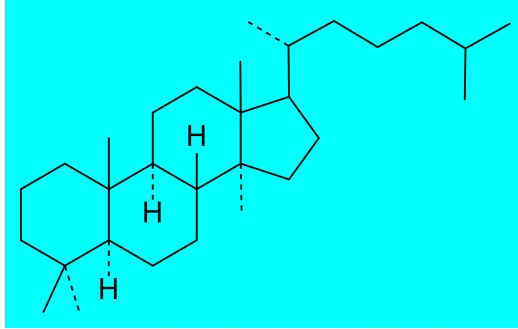


执业药师《中药一》皂苷类化学结构图

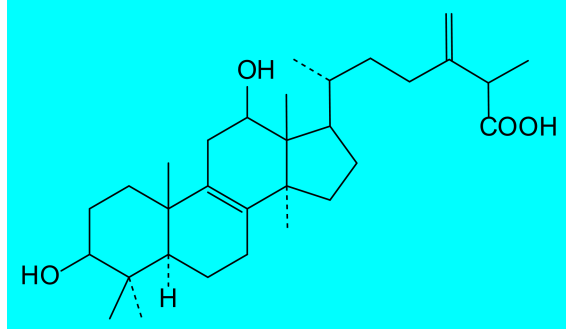
1.三萜皂苷

(1) 四环三萜

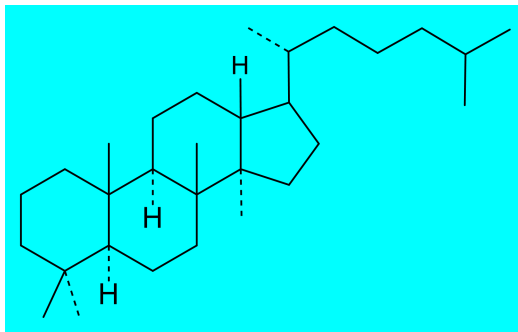
羊毛甾烷



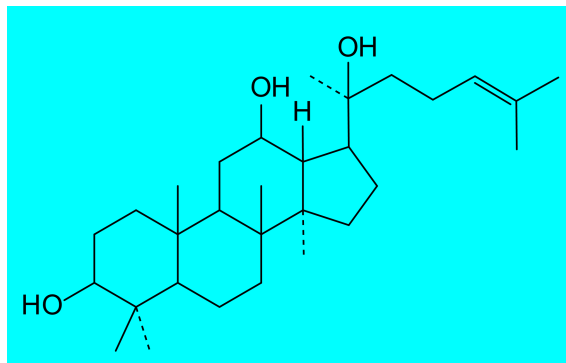
猪苓酸 A (羊毛甾烷型)



达玛烷

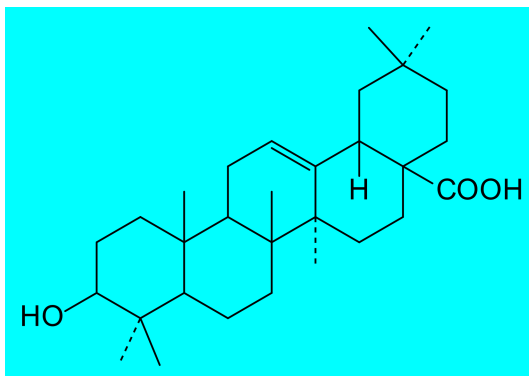


20 (S)-原人参二醇 (达玛烷型)

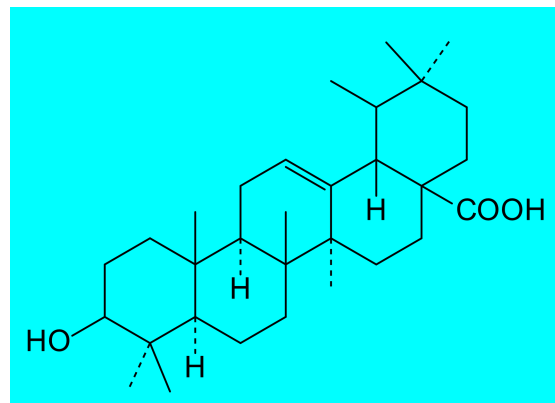


(2) 五环三萜

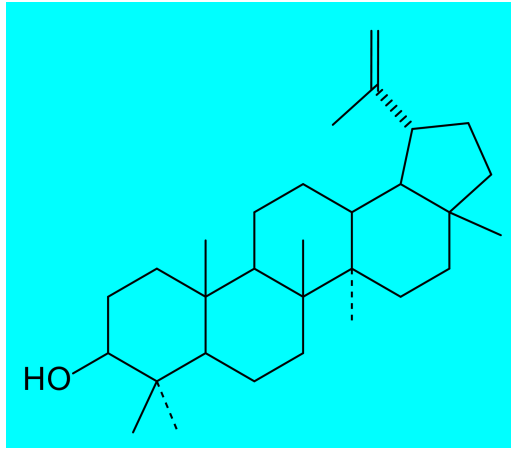
齐墩果酸 (齐墩果烷型)



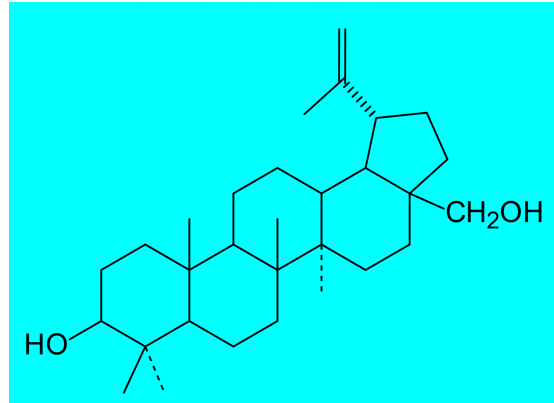
乌苏酸 (乌苏烷型)



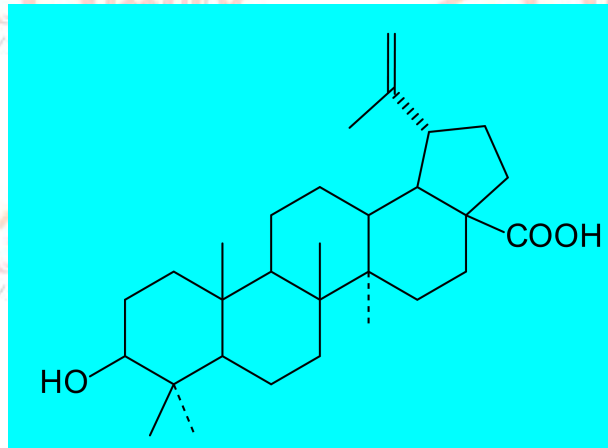
羽扇豆醇 (羽扇豆烷)



白桦醇 (羽扇豆烷)

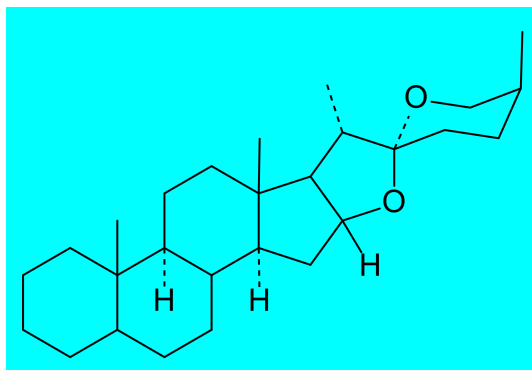


白桦酸 (羽扇豆烷)

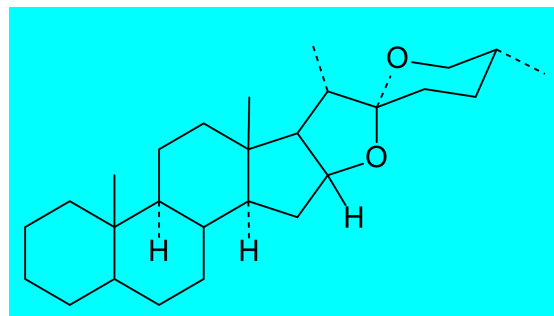


## 2. 甾体皂苷

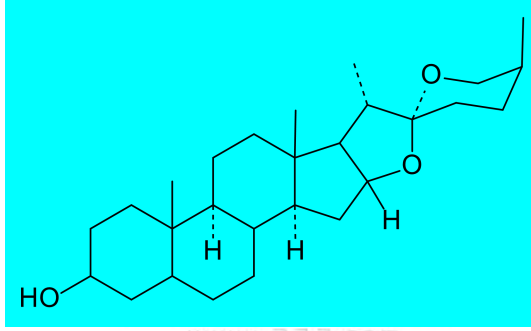
螺旋甾烷



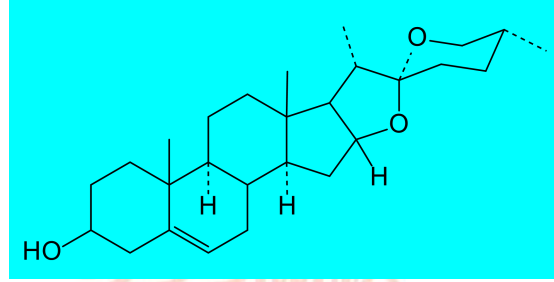
异螺旋甾烷



菝葜皂苷元



薯蓣皂苷元



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