```
hsimp_rec_thm  THM

⊢  ∀'a:S.
   all
   (λx:'a. all
           (λf:'a → 'a. and
                        (equal(simp_rec(x,f,0),x)
                        ,all
                         (λm:hnum. equal
                                   (simp_rec(x,f,suc(m))
                                   ,f(simp_rec(x,f,m)))))))
  by HOL "hsimp_rec_thm"
END
```