

computeDipoleH0NormTest

```
% create a dipole with constant sphere radius in rest position and relative  
% to sensor array with position x=0, y=0, z=0  
% sphere radius 2mm  
r = 2;  
% distance in which the field strength is imprinted  
z = 5;  
% field strength magnitude to imprint in dipole field on sphere radius kA/m  
Hmag = 8.5;  
% magnetic moment magnitude which rotates the dipole without tilt  
Mmag = 1e6;  
  
% compute norm factor  
H0norm = computeDipoleH0Norm(Hmag, [Mmag; 0; 0], [0; 0; -(z + r)]);
```

Test 1: positive scalar factor

```
assert(isscalar(H0norm))  
assert(H0norm > 0)
```