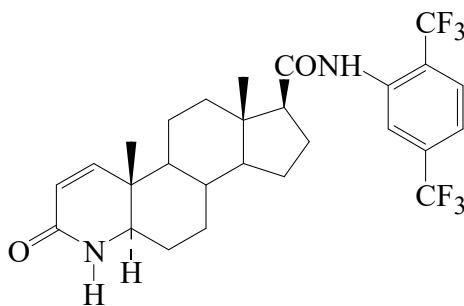




>>Entry Name: Dutasteride, INN

Synonym(s): *N*-[2,5-Bis(trifluoromethyl)phenyl]-3-oxo-4-azaandrost-1-ene-17-carboxamide, 9Cl. GG 745



CAS Registry Number: 164656-23-9

Type of Compound Code(s): XA6240

Molecular Formula: C<sub>27</sub>H<sub>30</sub>F<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 528.537

Accurate Mass: 528.221146

Percentage Composition: C 61.36%; H 5.72%; F 21.57%; N 5.30%; O 6.05%

Biological Use/Importance: Testosterone (human type 1 and 2) 5 $\alpha$ -reductase inhibitor. Under investigation for treatment of benign prostatic hyperplasia

Physical Description: Cryst. (EtOAc/heptane)

Melting Point: Mp 244-245°

Other Data: Stereochem. is (5 $\alpha$ ,17 $\beta$ ). Analogue of Finasteride [FHD56-H](#)

#### References:

- Bakshi, R.K. *et al.*, *J. Med. Chem.*, 1995, **38**, 3189-3192; 1996, **39**, 1192, (*synth, pharmacol*)  
*Pat. Coop. Treaty (WIPO)*, 1995, *Glaxo*, 95 07 927; *CA*, **123**, 56393f, (*synth, pharmacol, cmr*)  
Bramson, H.N. *et al.*, *J. Pharmacol. Exp. Ther.*, 1997, **282**, 1496-1502, (*hplc, pharmacokinet*)  
Graul, A. *et al.*, *Drugs of the Future*, 1999, **24**, 246-253