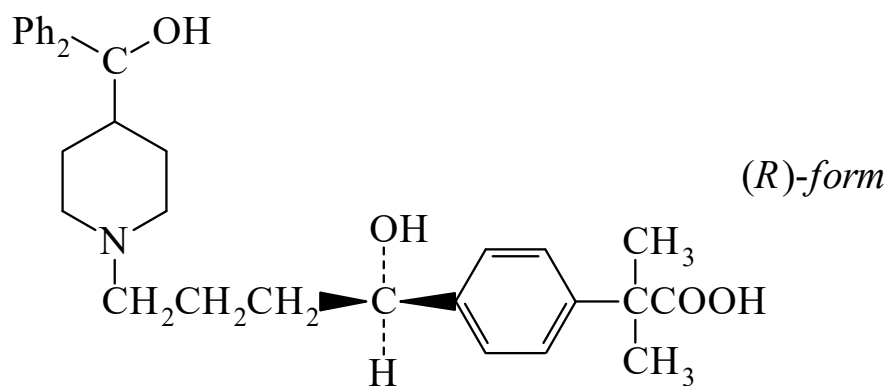




>>Entry Name: Fexofenadine, BAN, INN

Synonym(s): 4-[1-Hydroxy-4-[4-(hydroxydiphenylmethyl)-1-piperidiny]butyl]- α,α -dimethylbenzeneacetic acid, 9CI. Carboxyterfenadine. Allegra. Telfast. MDL 16455



CAS Registry Number: 83799-24-0

Related CAS Registry Numbers(s): 138452-21-8 154477-53-9 154477-58-4

Molecular Formula: $C_{32}H_{39}NO_4$

Molecular Weight: 501.664

Accurate Mass: 501.287909

Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%

Biological Use/Importance: Histamine H_1 -receptor antagonist. Used in the treatment of allergic rhinitis

Development Status: Marketed drug. Launched 1996. Worldwide 38th best selling prescription drug (\$1.08 bn) (Aventis) (2000, Pharma Business)

Other Data: Active metab. of Terfenadine [FLZ09-D](#)

>>Variant: (R)-form

CAS Registry Number: 139965-10-9

Molecular Formula: $C_{32}H_{39}NO_4$

Molecular Weight: 501.664

Accurate Mass: 501.287909

Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%

Physical Description: Cryst. (MeOH/EtOAc)

Melting Point: Mp 213-215°

>>Variant: (S)-form

CAS Registry Number: 139965-11-0

Molecular Formula: $C_{32}H_{39}NO_4$

Molecular Weight: 501.664

Accurate Mass: 501.287909

Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%

Physical Description: Cryst. (MeOH/EtOAc)

Melting Point: Mp 213-215°

>>Variant: ($\pm$)-form

CAS Registry Number: 159389-12-5

Molecular Formula: $C_{32}H_{39}NO_4$

Molecular Weight: 501.664

Accurate Mass: 501.287909

Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 142-143°

>>Derivative: Hydrochloride

Synonym(s): Fexofenadine hydrochloride, USAN

CAS Registry Number: 153439-40-8

>>Derivative: Me ester

CAS Registry Number: 154825-96-4

Molecular Formula: $C_{33}H_{41}NO_4$

Molecular Weight: 515.691

Accurate Mass: 515.303559

Percentage Composition: C 76.86%; H 8.01%; N 2.72%; O 12.41%

Physical Description: Solid