

Cough and Cold

TAJ PHARMACEUTICALS LIMITED

PRODUCT CODE- ETDNTJ451

Etafedrine

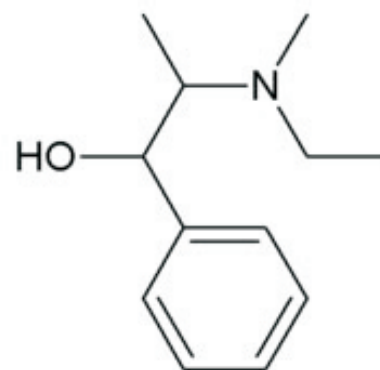
Formula C₁₂H₂₀ClNOCas No. **5591-29-7**

IUPAC Name: 2-[ethyl(methyl)amino]-1-phenylpropan-1-ol hydrochloride

CAS Registry Number: 5591-29-7

Synonyms: Nethamine, Nethaphyl, Etafedrine hydrochloride, Nethamine (TN), Etafedrine hydrochloride (USAN), Etafedrine hydrochloride [USAN], CID68646, EINECS 227-000-5, D04072, alpha-(1-(Ethylmethylamino)ethyl)benzyl alcohol hydrochloride, Benzenemethanol, alpha-(1-(ethylmethylamino)ethyl)-, hydrochloride, 5591-29-7, BENZYL ALCOHOL, alpha-(1-(ETHYLMETHYLAMINO)ETHYL)-, HYDROCHLORIDE, (-), 530-35-8, 7681-79-0

Molecular Formula: C₁₂H₂₀ClNO
 Molecular Weight: 229.746300 [g/mol]
 H-Bond Donor: 2 H-Bond Acceptor: 2



Etafedrine were studied on the tracheal chain preparation and the atria of the guinea pig and on the rabbit perfused heart.

Contraction of the tracheal chain by acetylcholine or histamine was antagonized by epinephrine (adrenaline), etafedrine and ephedrine, the relative potencies being 91:1:0.3, respectively.

Propranolol (5 X 10⁻⁷) mol/l) completely antagonized the bronchodilator effect of 10⁻⁴) mol/l) etafedrine on the acetylcholine-evoked contraction. Etafedrine up to 3 X 10⁻⁴) mol/l) did not increase heart rate or force of contraction in guinea pig atria. In contrast to tyramine and ephedrine (both 10⁻⁵) mol/l), etafedrine (10⁻⁴) mol/l) failed to release 3H-norepinephrine (noradrenaline) in the perfused rabbit heart. Moreover, the concentration-dependent positive chronotropic and inotropic effects of norepinephrine in isolated atria were slightly, but not significantly enhanced by etafedrine.

It is concluded that N-ethylation of ephedrine suppresses the indirect sympathomimetic activity and markedly enhances the efficacy on beta 2-adrenoceptors.

Etafedrine appears to be a sympathomimetic agent with a selective activity on beta 2-adrenoceptors.

PHARMACOLOGICAL ACTION:

Etafedrine a sympathomimetic agent, acts on the sympathetic receptors of the bronchial tree relaxing spasm in a manner similar to that of ephedrine.

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It helps to control cough associated with inflammation of the mouth and throat that is not helped by cough medications that are less strong.

Hydrocodone is a narcotic medication that is an antitussive (cough suppressant). It helps to reduce cough by affecting the cough centre in the brain.

Etafedrine belongs to the family of medications called decongestants. It works by narrowing blood vessels in the nasal passages, helping to relieve nasal stuffiness.

Do not give this medication to anyone else, even if they have the same symptoms as you do. It can be harmful for people to take this medication if their doctor has not prescribed it.

The recommended dose of this medication is

Adults: 5 mL (1 teaspoonful) every 3 to 5 hours as needed, but not more than 30 mL in any 24-hour period.

Children 6 to 12 years of age: 2.5 mL to 5 mL every 3 to 5 hours as needed to a maximum of 15 mL in any 24-hour period.

Children 1 to 6 years of age: 1.25 mL to 2.5 mL every 3 to 5 hours as needed to a maximum of 3 doses in any 24-hour period.

Use an oral syringe to measure each dose of the liquid as it gives a more accurate measurement than household teaspoons.

Store this medication at room temperature, protect it from light, and keep it out of the reach of children.

Do not dispose of medications in wastewater (e.g. down the sink or in the toilet) or in household garbage. Ask your pharmacist how to dispose of medications that are no longer needed or have expired.

Side effects occur

- * fast, slow, or pounding heartbeat
- * hallucinations (seeing, hearing, or feeling things that are not there)
- * hives, itching, or skin rash
- * increased sweating
- * irregular breathing
- * mental depression or other mood or mental changes
- * redness or flushing of face
- * ringing or buzzing in the ears
- * shortness of breath, wheezing, or troubled breathing
- * swelling of face
- * trembling or uncontrolled muscle movements
- * unusual excitement or restlessness (especially in children)

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top taking the medication and seek immediate medical attention if any of the following occur:

- * cold, clammy skin
- * headache (severe or continuing)
- * low blood pressure
- * pinpoint pupils of eyes
- * seizures
- * severe confusion or disorientation
- * severe dizziness
- * severe drowsiness
- * severe nausea or vomiting
- * severe nervousness or restlessness
- * severe weakness
- * shortness of breath or troubled breathing (severe or continuing)
- * signs of a severe allergic reaction such as hives; difficulty breathing; swelling of the tongue, face, mouth, or throat
- * slow heartbeat

Etafedrine (INN) or ethylephedrine is a long-acting bronchodilator and has the brand name Nethaprin. It is commercially available as both the free base, and as the hydrochloride.

Ethylephedrine may be synthesized by alkylating ephedrine with ethyl iodide. The hydrochloride may be prepared by passing hydrogen chloride through a solution of ethylephedrine in diethyl ether.

This document plus the full buyer / prescribing information, prepared for health professionals can be found at:

<http://www.tajapi.com>

or by contacting the sponsor, Taj Pharmaceuticals Limited., at:

91 022 30601000.

This leaflet was prepared by
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Mumbai (India).

ETDNTJ451

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