Zyban

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ZYBAN

BUPROPION HYDROCHLORIDE

SHAWNA MEADOWS
CHE 106-007
PARKLAND COLLEGE

HOW DOES THE BODY TAKE ZYBAN IN?

Bupropion hydrochloride is given in tablet form and should be used with meals to decrease the chance of nausea and vomiting. Immediate-release tablets should be given at a dose of approximately 150 mg daily or longer in duration. Treatments that include weight loss and the continuation of smoking cessation treatments can continue post cessation.

WHAT DOES THE BODY DO WITH ZYBAN AFTER IT IS ABSORBED?

Bupropion hydrochloride is metabolized in the liver by CYP2C19, and 16% of the dose is not absorbed. In 24-48 hours, it is eliminated in the urine and in the faeces.

HOW DOES THE BODY BREAK DOWN ZYBAN?

Bupropion hydrochloride is metabolized in the liver by CYP2C19, and 16% of the dose is not absorbed. In 24-48 hours, it is eliminated in the urine and in the faeces.

HOW DOES THE BODY ELIMINATE ZYBAN?

Bupropion hydrochloride is 80% eliminated from the body through the urine. It has a half-life of 2-3 hours.

FUNCTIONAL GROUPS:

- Halo
- Double bond ketone
- Aromatic
- Hydrophilic
- Hydrophobic
- Neither acidic or basic

USES:

Bupropion hydrochloride is used to treat depression and smoking cessation. Bupropion hydrochloride is also used for weight loss.

CLASSIFICATION:

Antidepressant

DOSE & MOLAR MASS:

Dose:

100 mg tablet

Dose to Molecules:

15 mg

Molar Mass of Bupropion Hydrochloride:

276.9 g/mol

TRADE NAMES:

Wellbutrin, Wellbutrin SR, Wellbutrin XL, Zyban

CHEMICAL NAMES:

1-(3-Chlorophenyl)-2-(1,1-dimethylamino)-1-propanone; (+)-1-(2-hydroxyethyl)-3-chloroglypophosphonic acid; amifatamone

CHEMICAL FORMULA:

C_{11}H_{19}ClN.O.HCl