

# ErgoWallet.io

## Magnum Wallet Recover Manual

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We are going to extract private key in hex format from mnemonic phrase and import it into

Ergo Wallet Desktop (<https://ergowallet.io>)

Every tool is open source and used locally

### Step 1: WIF-format private key

1. Download BIP39 tool from  
<https://github.com/iancoleman/bip39/releases/download/0.5.2/bip39-standalone.html>
2. Open file `bip39-standalone.html` in browser
3. Enter your 12 words mnemonic in the field

**BIP39 Mnemonic**

turn excess ripple practice cigar begin cheap end fortune fat release oil

4. Select BIP32 tab in Derivation Path section, for Client field use “Custom derivation path” and leave BIP32 Derivation Path field with “**m**”. As showed on the picture bellow

## Derivation Path

BIP32

BIP44

BIP49

BIP84

BIP141

For more info see the [BIP32 spec](#)

Client

Custom derivation path

BIP32 Derivation Path

m

5. In the Derived Addresses section tick “**Use hardened addresses**” checkbox

### Derived Addresses

Note these addresses are derived from the BIP32 Extended Key

☐ Encrypt private keys using BIP38 and this password:  Enabling BIP38 means each key will take several minutes to generate.

☒ Use hardened addresses

Table [CSV](#)

Path	Address	Public Key	Private Key
<div><div>Toggle</div></div>	<div><div>Toggle</div></div>	<div><div>Toggle</div></div>	<div><div>Toggle</div></div>
m/0'	18fkBbjzJMjiz621p3es56ne232MJ28fax	023e6a9fc060025f55bff8bd47c5c9797413549c7b3a42cb481348d2e40466b803	L2UoSxbosyKREd72bD3WVf16amJBq3VueqovfiojmnPhMgnCLqdC
m/1'	1FQRwKH2i1TfFPH5cu4mSC7YzwahpJNvjv	039364646a52238c4e758e4fe07a6cac226ed40dfb83a842c5b5a93e419fb551b1	L2JmVJKVUsuwQ2qs81G6qKzNVZMXLSTtnjom15mYHdn7HXR7NmBk



Caution: Scanner may ke

Now we have keys for following derivation paths  $m/0'$ ,  $m/1'$ , etc.

You need the first Private Key. On the picture above it is

L2UoSxbosyKREd72bD3WVf16amJBq3VueqovfiojmnPhMgnCLqdC

The key is in WIF-format.

## Step 2: Hex private key from WIF private key

Let's extract raw hex private key from WIF-format

1. Download Base58 decode tool from <https://github.com/jes/base58/archive/master.zip>
2. Unzip archive and open `index.html` in a browser
3. Put your private key from Step 1 into right input field and press “**Decode**” button

# Base58

Base58 encoding is used to encode [Bitcoin addresses](#) and [IPFS](#) content hashes, among other things.

Use this tool to encode data in Base58, or to decode Base58 data.

☒ Hexadecimal ☐ Raw data (e.g. text)

Unencoded data...

Encode »

Base58 tool by [James Stanley](#).

L2UoSXbosyKREd72bD3WVf16amJBq3VueqovfiojmnPhMgnCLqdCj

« Decode

4. You will get hex string in the left field. For our key it is:

```
809cf33e8cbfc13b8ef95048a44e324edd3bad7a239ba02ce843d310a9dd2df29101e6e20a7b
```

5. Now, you have to remove:

- 2 chars from the beginning (it's **80**)
- 10 chars from the end (it's **01e6e20a7b**)

We have pure private key now (64 chars):

```
9cf33e8cbfc13b8ef95048a44e324edd3bad7a239ba02ce843d310a9dd2df291
```

6. Download ErgoWallet from <https://ergowallet.io> and import this private key. You should get access to your ERGs.