



1inch Swap API

Generate calldata to swap on 1inch Router

chain **number** * (path)

1

```
src string * (query)
```

```
0xffffffffffffffffffffffffffffffff
```

dst string * (query)

0x11111111117dc0aa78b770fa6a738034'

amount **string** * (query)

1000000000000000000

```
from string * (query)
```

The address that calls the 1inch contract

origin **string** * (query)

An EOA address that initiate the transaction

slippage **number** * (query)

1

min: 0; max: 50

protocols **string** (query)

All supported liquidity sources by default

fee **number** (query)

Partner fee. min: 0; max: 3 Should be the same for /quote and /swap

gasPrice **string** (query)

Network price per gas in wei. By default fast network gas price

complexityLevel **number** (query)

parts **number** (query)

mainRouteParts **number** (query)

gasLimit **number** (query)

includeTokensInfo **boolean** (query)

Return fromToken and toToken info in response

includeProtocols **boolean** (query)

Return used swap protocols in response

includeGas **boolean** (query)

Return approximated gas in response

connectorTokens **string** (query)

excludedProtocols **string** (query)

excluded supported liquidity sources

permit **string** (query)

<https://eips.ethereum.org/EIPS/eip-2612>

receiver **string** (query)

This address will receive funds after the swap. By default same address as "from" param

referrer **string** (query)

allowPartialFill **boolean** (query)

By default set to false

compatibility **boolean** (query)

Allows to swap tokens with internal transfer fee

disableEstimate **boolean** (query)

Enable this flag to disable onchain simulation

usePatching **boolean** (query)

Enable this flag if you patch input amount on your smart contract

usePermit2 **boolean** (query)

Enable this flag in case you did an approval to permit2 smart contract

swagger.response

Code: 200

Schema:

- ▼ SwapResponse object
 - ▼ srcToken any
 - ▼ allOf[0] TokenInfo object
 - address * string
 - symbol * string
 - name * string
 - decimals * number
 - logoURI * string
 - domainVersion string
 - eip2612 boolean
 - isFoT boolean
 - ▼ tags array
 - items string
 - ▼ dstToken any
 - ▼ allOf[0] TokenInfo object
 - address * string
 - symbol * string
 - name * string
 - decimals * number
 - logoURI * string
 - domainVersion string
 - eip2612 boolean
 - isFoT boolean
 - ▼ tags array
 - items string
 - dstAmount * string
 - ▼ protocols array
 - ▼ items TokenSwaps object
 - token * string
 - ▼ hops * array
 - ▼ items TokenHop object
 - part * number
 - dst * string
 - fromTokenId * number
 - toTokenId * number
 - ▼ protocols * array
 - ▼ items SelectedLiquiditySource object
 - name * string
 - part * number
 - ▼ tx * any
 - ▼ allOf[0] TransactionData object
 - from * string
 - to * string
 - data * string
 - value * string
 - gasPrice * string
 - gas * number

Code: 400

Schema:

- ▼ SwapRequestError object
 - error * string
 - description * string
- ▼ statusCode * number (Enum)
 - 400

```
500
requestId * string
▼ meta * array
  ▼ items HttpExceptionMeta object
    type * string
    value * string
```

Authorization - API KEY

API KEY

[Sign in](#) for automatic API key authentication.

Try it



NodeJS

Python

cURL

Go

```
const axios = require("axios");

async function httpCall() {
  const url = "https://api.1inch.dev/swap/v6.1/1/swap";

  const config = {
    headers: undefined,
    params: {
      src: "0xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      dst: "0x111111111117dc0aa78b770fa6a738034120c302",
      amount: "10000000000000000",
      slippage: 1,
    },
    paramsSerializer: {
      indexes: null,
    },
  };

  try {
    const response = await axios.get(url, config);
```

Response

Click the try-it button to test your API call and see the real-time response right here.

Previous

Next



Find the best quote to swap with 1inch Router



Address of the 1inch Router that is trusted to spend funds for the swap

© 2025 1inch Limited

[Privacy Policy](#)

[Terms of Service](#)

[Commercial API Terms of Use](#)