

## Get UserOperation by Hash

eth\_getUserOperationByHash

This endpoint returns a `UserOperation` based on a hash (`userOpHash`) returned by `eth_sendUserOperation`.

## Parameters

## Body

Param Type Description Required method string Name of method in this case: eth\_getUserOperationByHash Required params array An array consisting of the userop hash returned by eth\_sendUserOperation Required id string id for request determined by client for JSON RPC requests Required jsonrpc string JSON RPC version in this case 2.0.0 Required

## Request

```
{ "method": "eth_getUserOperationByHash", "params": [ "0x10b68dfde047c51e2f4a500281a715710c7b1c0517b87ad0b48229042f61ac0e" ], "id": 1693369916, "jsonrpc": "2.0" }
```

## Response

- If the UserOperation is included in a block:
- Return a full UserOperation, with the addition of entryPoint, blockNumber, blockHash and transactionHash.
- Else if the UserOperation is pending in the bundler's mempool:
- may return null, or: a full UserOperation, with the addition of the entryPoint field and a null value for blockNumber, blockHash and transactionHash.
- Else:
- Return null

[illegible]