# Important note about API key

Accessing CDISC Library API without an API key will result in HTTP 401 (Access Denied). A message similar to the following will appear in the response payload:

```json
{
  "statusCode": 401,
  "message": "Access denied due to missing subscription key. Make sure to include subscription key when making requests to an API."
}
```

## # Instruction | Screenshot | Remarks

### 1
**Obtain a cdiscID, a single sign-on solution for CDISC applications**

For details, refer to cdiscID: Sign in/Sign up Instructions.

- **Remarks:** No actions are needed for existing CDISC Library users.

### 2
**Navigate web browser to the API Management Developer Portal at [https://api.developer.library.cdisc.org/signin](https://api.developer.library.cdisc.org/signin).**

- **Screenshot:**

  ![cdisc Library Logo](image)

  **Sign in**

  Click the button below to initiate the sign in process.

  ![Sign in Button](image)

  **Access to CDISC Library is a benefit of CDISC Membership.** If you do not already have a CDISC Library account, please log in to your account or create an account on the CDISC website and then visit the CDISC Library Account Request Form. Note: A CDISC Library Account has different credentials from an account on www.cdisc.org.

  Visit CDISC Library for additional information.

- **Remarks:** Users can alternatively access the API Management Developer Portal through the Data Standards Browser’s gear icon.
3 Enter same credentials as you would for CDISC Library Data Standards Browser. Click Sign In.

4 Select API Key from top navigation menu.

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Verify CDISC Library API is listed as a product under the Subscription section.

Click “Show” (of either primary or secondary key) to reveal a system-generated API key assigned to your CDISC Library account.

An API key is a 32-byte hexadecimal value. A fictitious key looks like this: ab cdef0123456789abcdef0123456789.
Compose an CDISC Library API query to this specification:

- **Base URL:** `https://library.cdisc.org/api`
- **Endpoint:** `/mdr/products`
- **Authentication header:**
  
  - **Key:** `api-key`
  - **Value:** `{32-byte API key}`

**Screen capture using Postman, with a fictitious API key:**

**Example curl command, with a fictitious API key:**

```bash
curl -X GET https://library.cdisc.org/api/mdr/products 
-H "Accept: application/json" 
-H "api-key: abcdef0123456789abcdef0123456789"
```

**Example SAS code with a fictitious API key, using v9.4 and SAS OnDemand for Academics:**

```sas
filename response TEMP;
proc http
  url="https://library.cdisc.org/api/mdr/products" 
  out=response;
headers /* Use request header to specify API key authentication */ 
  "api-key"="abcdef0123456789abcdef0123456789";
run;
data _null_; 
  infile response; 
  input; 
  put _infile_; 
run;
```

---

**Execute query.**

**Sample response in JSON**

```json
{
  "_links": {
    "data-analysis": {
      "_links": {
        "adam": { 
          "href": "/mdr/adam/adam-2-1",
          "title": "Analysis Data Model Version 2.1",
          "type": "Foundational Model"
        },
        "href": "/mdr/adam/adam-adae-1-0",
        "title": "Analysis Data Model Data Structure for Adverse Event Analysis Version 1.0",
        "type": "Implementation Guide"
      }
    }
  },
  "self": { 
    "href": "/mdr/products/DataAnalysis",
    "title": "Product Group Data Analysis",
    "type": "CDISC Library Product Group"
  }
}
```
Obtain API usage metrics from https://api.developer.library.cdisc.org/reports.

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