

# CosmWasm Precompile

[illegible]

This precompile serves as an interface to the CosmWasm module, enabling EVM based clients and smart contracts to interact with CosmWasm contracts directly.

## Functions

## Transactions

- instantiate
- : Instantiates a new CosmWasm contract

Payable : Any Sei amounts used to instantiate must be sent to the contract directly. Use the coins field for other params.

/// Instantiates a new CosmWasm contract. /// @param codeID The codeID of the contract. /// @param admin The Sei address of the account to be set as contract admin. /// @param msg The msg to send for instantiation. The format is specified by the contract code. /// @param label Any labels to include for the new contract. /// @param coins Any non-sei denominations that the contract requires for instantiation. /// @return The contract address and associated data. function

instantiate ( uint64 codeID , string

memory admin , bytes

```
memory msg , string
```

memory label , bytes

memory coins ) payable

external

returns ( string

memory contractAddr ,

bytes

memory data); \* execute \* : Sends a message to a CosmWasm contract for execution

Payable : Any Sei amounts required for contract execution must be sent to the contract directly. Use thecoins field for other params.

```
/// Executes some message on a CosmWasm contract. /// @param contractAddress The Sei address of the contract to
execute. /// @param msg The msg to send for execution. The format is specified by the contract code. /// @param coins Any
non-sei denominations that the contract requires for execution. /// @return The execution response from the CosmWasm
contract. function
```

```
execute ( string
```

memory contractAddress , bytes

memory msg , bytes

memory coins ) payable

external

returns ( bytes

memory response); \* execute\_batch \* : Sends a messages to a CosmWasm contract for execution

Payable : Any Sei amounts required for contract execution must be sent to the contract directly. Use thecoins field for other params.

struct

```
ExecuteMsg { string contractAddress; bytes msg; bytes coins; } /// Executes collection of messages on a CosmWasm
contract. /// @param executeMsgs The Sei address of the contract to execute. /// @return The execution responses
collection from the CosmWasm contract. function
```

execute\_batch ( ExecuteMsg [] memory executeMsgs ) payable

external

returns ( bytes [] memory responses);

## Queries

- query
- : Queries a CosmWasm contract state/// Queries a CosmWasm contract.
- ///
- @param
- contractAddress The Sei address of the contract to query.
- ///
- @param
- req The query request object. The format is specified by the contract code.
- ///
- @return
- The response from the CosmWasm contract.
- function
- query
- (
  - string
  - memory
  - contractAddress
- ,
- bytes
- memory
- req
- )
- external
- view
- returns
- (
  - bytes
  - memory
  - response)

View the CosmWasm precompile source code and the contract AB[here\(opens in a new tab\)](#) . Last updated on June 3, 2024  
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