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Datasheet for ABIN7317566

CMBL Protein (His tag)

Overview

Quantity:	100 µg
Target:	CMBL
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CMBL protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CMBL Protein (His Tag)
Sequence:	Met 1-Met 245
Characteristics:	A DNA sequence encoding the human CMBL (Q96DG6) (Met 1-Met 245) was expressed, with a N-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.

Target Details

Target:	CMBL
Alternative Name:	CMBL (CMBL Products)
Background:	Background: Carboxymethylenebutenolidase (CMBL), also known as 4-carboxymethylenebut-2-en-4-olide lactonohydrolase, maleylacetate enol- lactonase, dienelactone hydrolase, and carboxymethylene butenolide hydrolase, is a hydrolase specially belonging to the family of hydrolases. It mainly acts on carboxylic ester bonds. CMBL is a human homolog of

Target Details

Pseudomonas diene lactone hydrolase involved in the bacterial halocatechol degradation pathway. The ubiquitous expression of human CMBL gene transcript in various tissues was observed. CMBL was demonstrated to be the primary olmesartan medoxomil (OM) bioactivating enzyme in the liver and intestine. The recombinant human CMBL expressed in mammalian cells was clearly shown to activate OM. The recombinant CMBL also converted other prodrugs having the same ester structure as OM, faropenem medoxomil and lenampicillin, to their active metabolites. CMBL exhibited a unique sensitivity to chemical inhibitors, thus, being distinguishable from other known esterases.

Synonym: JS-1

Molecular Weight: 30 kDa

UniProt: [Q96DG6](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 0.1 % Brij35, pH 8.0

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.