

Product datasheet

Recombinant Human Cysteine Dioxygenase CDO1 protein ab153778

Description

Product name	Recombinant Human Cysteine Dioxygenase CDO1 protein	
Purity	<p>> 95 % SDS-PAGE.</p> <p>ab153778 is greater than 95% pure, as determined by SEC-HPLC and reducing SDS-PAGE. It is lyophilized from an 0.2 µM filtered solution.</p>	
Endotoxin level	< 1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	Q16878	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<pre>MEQTEVLKPRTLADLIRILHQLFAGDEVNVEEVQAIMEAYE SDPTEWAMY AKFDQYRYTRNLVDQNGKFNLMILCWGEGHGSSIHDTN SHCFLKMLQG NLKETLFAWPDKKSNEVMVKKSERVLRENQCAYINDSIGLH RVENISHTEP AVSLHLYSPFFDTCHAQDQRTGHKNKVTMTFHSKFGIRTP NATSGSLENN</pre>	
Predicted molecular weight	23 kDa	
Amino acids	1 to 200	
Tags	His tag N-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab153778** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	HPLC
Form	Liquid

Additional notes

Previously labelled as Cysteine Dioxygenase Type 1.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

General Info

Function

Initiates several important metabolic pathways related to pyruvate and several sulfate compounds including sulfate, hypotaurine and taurine. Critical regulator of cellular cysteine concentrations. Has an important role in maintaining the hepatic concentration of intracellular free cysteine within a proper narrow range.

Tissue specificity

Highly expressed in liver and placenta. Low expression in heart, brain and pancreas. Also detected in hepatoblastoma HepG2 cells.

Pathway

Organosulfur biosynthesis; taurine biosynthesis; hypotaurine from L-cysteine: step 1/2.

Sequence similarities

Belongs to the cysteine dioxygenase family.

Post-translational modifications

The thioether cross-link between Cys-93 and Tyr-157 plays a structural role through stabilizing the Fe(2+) ion, and prevents the production of highly damaging free hydroxyl radicals by holding the oxygen radical via hydroxyl hydrogen.

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