



Human Branched Chain 2-oxo-acid Dehydrogenase Complex E2 (BCOADC-E2)

Origin:	Recombinant	Cat. No.:	41A062
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>Spodopterafrugiperda</i> Sf9	Purity:	>90%
Other names:	BCOADC-E2, BCKAD-E2, BCATE2	Species:	Human

Description

Expressed in insect Sf9 cells with total 446 AA. Mw: 49.5 KDa(calculated). N-terminal 6xHis-tag and TEV cleavage site, extra 25 AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

BCOADC-E2 is the central E2 component of branched chain 2-oxo acid dehydrogenase complex (BCOADC), which is a mitochondrial multienzyme complex involved in the maintenance of the cellular redox state.

Patients with primary biliary cirrhosis show autoantibodies against the BCOADC-E2.

Immunological Function

As an autoantigen, BCOADC-E2 binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHDYDIPTTENLYFQGA GQVVQFKLSDIGEGIREVTVKEWYVKEGDTVSQFD
SICEVQSDKASVTITSRYDGVIKKLYNLDIAVVGKPLVDIETEALKDSEEDVVETPAVSHDEH
THQEIKGRKTLATPAVRRRLAMENNIKLSSEVVGSGKDGRIKEDILNYLEKQTGAILPPSPKVEIMP
PPPKPKDMTPILVSKPPVFTGKDKTEPIKGFQKAMVKTMSAALKIPHFGYCDEIDLTELVLKREE
LKPIAFARGIKLSFMPFFLKAASLGLLQFPILNASVDENCQNITYKASHNIGIAMDTEQGLIVPNV
KNVQICSIFDIATELNRLQKLGSVSQLSTTDLTGGTFTLSNIGSIGGTFKPVIMPPEVAIGALGS
IKAIPRFNQKGEVYKAQIMNVSWASADHRVIDGATMSRFSNLWKSYLENPAFMLLDLK

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid in storage buffer (50mM Tris, 300-500mM NaCl, 10% Glycerol, Protease inhibitor, pH8.0).





Storage

Store at -80°C . Avoid repeated freezing/thawing cycles.

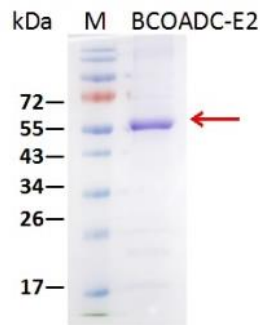
Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

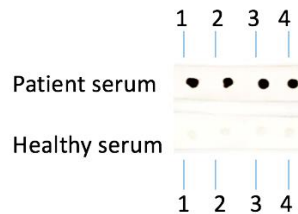
Immunodot analysis to determine functionality of protein.

SDS-PAGE gel



Dot blot assay

Dot blot analysis of BCOADC-E2



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

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