



Recombinant Human ACE2 Protein [mFc] (DAGC240)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the human ACE2 (NP_068576.1) (Met1-Ser740) was expressed with the Fc region of mouse IgG1 at the C-terminus.
Nature	Recombinant
Expression System	HEK293 Cells
Species	Human
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	mFc
Applications	SDS-PAGE, ELISA
Predicted N terminal	Gln 18
Molecular Weight	The recombinant human ACE2 consists 957 amino acids and predicts a molecular mass of 110 kDa.
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Procedure	None
Format	Lyophilized
Size	20ug, 100ug, 1mg
Buffer	Lyophilized from sterile 20mM PB, 150mM NaCl, pH 7.0, 5% glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Ship	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

BACKGROUND

Introduction

Angiotensin-converting enzyme 2 (ACE2) is also known as ACEH (ACE homolog), is an integral membrane protein with considerable homologous to ACE, which belongs to the peptidase M2 family. ACE2 is an exopeptidase that catalyses the conversion of angiotensin I to the nonapeptide angiotensin, or the conversion of angiotensin II to angiotensin 1-7. ACE2 may be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, ACE-2 serve as functional receptor for the spike glycoprotein of both coronaviruses. ACE2 is activated by chloride and fluoride, but not bromide and Inhibited by MLN-4760, cFP_Leu, and EDTA, but not by the ACE inhibitors lisinopril, captopril and enalaprilat. ACE2 is active from pH 6 to 9, and the optimum pH is 6.5 in the presence of 1 M NaCl.

Keywords

ACE2; ACEH; ACE-2