

Product datasheet

Recombinant Mouse ACE2 protein (Fc Chimera His Tag) ab276801

[1 Image](#)

Description

Product name Recombinant Mouse ACE2 protein (Fc Chimera His Tag)

Purity > 95 % SDS-PAGE.

Endotoxin level < 1.000 Eu/μg

Expression system HEK 293 cells

Accession **Q8R0I0-1**

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Mouse

Sequence

MSSSSWLLLS LVAVTTAQSL TEENAKTFLN
NFNQEAEDLS YQSSLASWNY NTNITEENAQ
KMSEAAAKWS AFYEEQSKTA QSFSLQEIQT
PIIKRQLQAL QQSGSSALSA DKNKQLNTIL NTMSTIYSTG
KVCNPKNPQE CLLLEPGLDE IMATSTDYNS
RLWAWEGWRA EVGKQLRPLY EEYVVLKNEM
ARANNYNDYG DYWRGDYEA EADGYNYNRN
QLIEDVERTF AEIKPLYEHL HAYVRRKLM D TYPYSISPTG
CLPAHLLGDM WGRFWTNLYP LTVPFAQKPN
IDVTDAMMNQ GWDAERIFQE AEKFFVSVGL
PHMTQGFWAN SMLTEPADGR KVVCHPTAWD
LGHGDFRIKM CTKVTMDNFL TAHHEMGHIQ
YDMAYARQPF LLRNGANEGF HEAVGEIMSL
SAATPKHLKS IGLLP SDFQE DSETEINFL L KQALTVGTL
PFTYMLEKWR WMVFRGEIPK EQWMKKWWEM
KREIVGVVEP LPHDETYCDP ASLFHVSNDY SFIRYYTRTI
YQFQFQEALC QAAKYNGSLH KCDISNSTEA
GQKLLKMLSL GNSEPWTKAL ENVVGARNMD
VKPLLNYFQP LFDWLKEQNR NSFVGWNTTEW
SPYADQSIKV RISLKSALGA NAYEWTNNEM
FLFRSSVAYA MRKYFSIIKN QTVPFLEEDV RVSDLKPRVS
FYFFVTSPQN VSDVIPRSEV EDAIRMSRGR

Predicted molecular weight	112 kDa including tags
Molecular weight information	The secreted recombinant mouse ACE2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 971 amino acids and has a predicted molecular mass of 112 kDa. As a result of glycosylation, it migrates as an approximately 130 kDa band in SDS-PAGE under reducing conditions.
Amino acids	1 to 740
Tags	His tag C-Terminus , Fc tag C-Terminus
Additional sequence information	Fc region of human IgG1. Predicted N-terminus: Gln 18.

Specifications

Our **Abpromise guarantee** covers the use of **ab276801** 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

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at Room Temperature. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.5

Constituents: 0.24% Tris, 0.87% Sodium chloride, 0.01% Zinc chloride

Reconstitution This information is lot specific. Please contact our technical Support team for details.

General Info

Function Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.

Tissue specificity Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells. Expressed in lung alveolar epithelial cells, enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level). Expressed in heart, kidney, testis, and gastrointestinal system.

Sequence similarities Belongs to the peptidase M2 family.

Post-translational modifications N-glycosylation on Asn-90 may limit SARS infectivity.

Cellular localization Secreted and Cell membrane.

Images



SDS-PAGE analysis of ab276801

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors