

Recombinant human EDAR protein

Catalog Number: ATGP3759

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

27-187aa

UniProt No.

Q9UNE0

NCBI Accession No.

NP_071731

Alternative Names

Tumor necrosis factor receptor superfamily member EDAR, EDAR, DL, ECTD10A, ECTD10B, ED1R, ED3, ED5, EDA-A1R, EDA1R, EDA3, HRM1

PRODUCT SPECIFICATION

Molecular Weight

45.6 kDa (413aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

EDAR, also known as tumor necrosis factor receptor superfamily member EDAR, is a single-pass type 1 transmembrane protein which is a member of TNF receptor superfamily. This protein was expressed reiteratively in signaling centers regulating key steps in morphogenesis. Also, it is a cell surface receptor for ectodysplasin A

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which plays an important role in the development of ectodermal tissues such as the skin. Also, defects in EDAR are a cause of ectodermal dysplasia anhidrotic (EDA), also known ectodermal dysplasia hypohidrotic autosomal recessive (HED). Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structure. Recombinant human EDAR, fused to hIlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

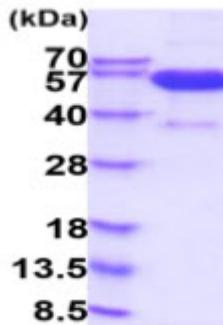
ADPEYSNCGE NEYINQTTGL CQECPPCGPG EEPYLSGCGY TKDEDYGCVP CPAEKFSKGG YQICRRHKDC EGFFRATVLT
PGDMENDAEC GPCLPGYYML ENRPRNIYGM VCYSCLLAPP NTKECVGATS GASANFPGTS GSSTLSPFQH AHKELSGQGH
LATAAAAFES RACSLEPKSC DKHTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD
GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK
NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS
LSLSPGKHHH HHH

General References

Kumar A., et al., (2000) J. Biol. Chem. 276:2668-2677.
Schneider P, et al., (2001) J. Biol. Chem. 276:18819-18827.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.