

# Recombinant Mouse EDA2R/TNFRSF27 Protein (Fc Tag)

Catalog Number:PKSM041342



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

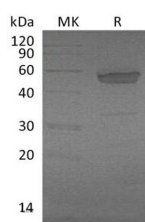
## Description

<b>Synonyms</b>	Ectodysplasin A2 receptor;EDA-A2 receptor;EDA-A2R;Tumor necrosis factor receptor superfamily member XEDAR;Tumor necrosis factor receptor superfamily member 27;X-linked ectodysplasin-A2 receptor;EDAA2R;TNFRSF27;XEDAR;EDAR2
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met1-Thr138
<b>Accession</b>	BAC28879
<b>Calculated Molecular Weight</b>	42.5 kDa
<b>Observed molecular weight</b>	50-60 kDa
<b>Tag</b>	C-Fc

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Tumor necrosis factor receptor superfamily member 27, also known as XEDAR and EDA2R, is a type III transmembrane protein of the TNFR superfamily. EDA2R consists of extracellular domain (ECD) with 3 cysteine-rich repeats and a single transmembrane domain but lacks an N-terminal signal peptide. EDA2R is widely expressed, notably in embryonic basal epidermal cells and maturing hair follicles. Even though it does not contain a cytoplasmic death domain, EDA2R can associate with Fas and induce EDA-A2 dependent apoptosis. Its transcription is directly induced by p53, and it

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mediated cell death is p53 dependent. it is down-regulated in breast, colon, and lung cancers, particularly in cases with p53 mutations. It also plays a role in EDA-A2 induced skeletal muscle degeneration and osteoblast differentiation. Mutations in the EDA gene are associated with the X-linked form of Hypohidrotic Ectodermal Dysplasia (HED), a disease typically characterized by abnormal hair, teeth and sweat glands.

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