Recombinant Rat XEDAR/EDA2R Protein (His Tag)

Catalog Number: PKSR030318

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

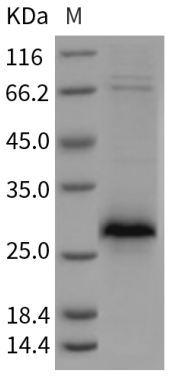
Description

Species	Rat
Source	HEK293 Cells-derived Rat XEDAR/EDA2R protein Met2-Glu137, with an C-terminal His
Calculated MW	16.7 kDa
Observed MW	27 kDa
Accession	D3ZAX4
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Tumor necrosis factor receptor superfamily member 27, also known as X-linked ectodysplasin-A2 receptor, EDA-A2 receptor, EDA2R, XEDAR and TNFRSF27, is a single-pass type III membrane protein. TNFRSF27 / EDA2R contains threeTNFR-Cys repeats. It is a new member of the tumor necrosis factor receptor family that has been shown to be highly expressed in ectodermal derivatives during embryonic development and binds to ectodysplasin-A2 (EDA-A2). TNFRSF27 / EDA2R is a receptor for EDA isoform A2, but not for EDA isoform A1. TNFRSF27 / EDA2R mediates the activation of the NF-kappa-B and JNK pathways. The activation seems to be mediated by binding to TRAF3 and TRAF6. Ectodysplasin, a member of the tumor necrosis factor family, is encoded by the anhidrotic ectodermal dysplasia EDA gene. Mutations in EDA give rise to a clinical syndrome characterized by loss of hair, sweat glands, and teeth. EDA-A1 and EDA-A2 are two isoforms of ectodysplasin that differ only by an insertion of two amino acids. This insertion functions to determine receptor binding specificity, such that EDA-A1 binds only the receptor EDAR, whereas EDA-A2 binds only the related, but distinct, X-linked ectodysplasin-A2 receptor (XEDAR).

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