

Recombinant Rat TGFBR1 protein (His tag)

Catalog Number: PDER100074



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

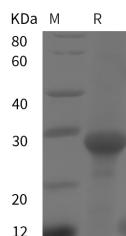
Description

Synonyms	AAT5;Activin receptor like kinase 5;ACVRLK4;ALK-5;LDS1A;LDS2A;MSSE;SKR4;TbetaR I;TGF-beta receptor type-1;TGFBR1;Transforming growth factor beta receptor 1
Species	Rat
Expression Host	E.coli
Sequence	Leu 311-Met 501
Accession	P80204
Calculated Molecular Weight	20.9 kDa
Observed molecular weight	28 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	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.
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% Tween80 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



> 95 % as determined by reducing SDS-PAGE.

Background

Most cell types express three sizes of receptors for TGF-beta. These are designated Type I (53 kDa), Type II (70-85 kDa), and Type III (250-350 kDa). The Type III receptor, a proteoglycan that exists in membrane-bound and soluble forms, binds TGF-beta 1, TGF-beta 2, and TGF-beta 3 but does not appear to be involved in signal transduction. The Type II receptor is a membrane-bound serine/threonine kinase that binds TGF-beta 1 and TGF-beta 3 with high affinity and TGF-beta 2 with a much lower affinity. The Type I receptor, originally known as ALK-5 (Activin receptor-like kinase) is also a membrane-bound serine/threonine kinase that apparently requires the presence of the Type II receptor to bind TGF-beta.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Web: www.elabscience.com

Tel: 1-832-243-6086

Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Recombinant Rat TGFBR1 protein (His tag)

Catalog Number: PDER100074



Current evidence suggests that signal transduction requires the cytoplasmic domains of both the Type I and Type II receptors.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Web: www.elabscience.com

Tel: 1-832-243-6086

Email: techsupport@elabscience.com

Fax: 1-832-243-6017