

Datasheet for ABIN7320892  
**TGFB1 Protein (Fc Tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	50 µg
Target:	TGFB1
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFB1 protein is labelled with Fc Tag.

## Product Details

Purpose:	Recombinant Mouse ALK-5/TGFB1 (C-Fc)
Sequence:	Leu30-Glu125
Characteristics:	Recombinant Mouse TGF-beta Receptor Type-1 is produced by our Mammalian expression system and the target gene encoding Leu30-Glu125 is expressed with a Fc tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	TGFB1
Alternative Name:	ALK-5/TGFB1 ( <a href="#">TGFB1 Products</a> )
Background:	Background: TGF-beta RI, also called ALK-5, is an approximately 55 kDa type I transmembrane serine/threonine receptor kinase. In the presence of TGF-beta, TGF-beta RI forms a complex

## Target Details

with, and is phosphorylated by, TGF-beta RII. Phosphorylated TGF-beta RI can then transiently bind and phosphorylate Smad2 and Smad3. TGF-beta functions as a tumor suppressor by inhibiting the cell cycle in the G1 phase. Administration of TGF-beta is able to protect against mammary tumor development in transgenic mouse models in vivo. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers, with the majority of colon and gastric cancers being caused by an inactivating mutation of TGF-beta RII. TGF-beta RI is likely important during development, since mice deficient for TGF-beta RI die at midgestation with severe defects in vascular development of the yolk sac and placenta, and an absence of circulating red blood cells. Furthermore, TGF-beta RI appears to be involved in proper lymphatic network development.

Synonym: AAT5, activin A receptor type II-like kinase, 53kD, ACVRLK4, ALK-5, ALK-5ALK5, LDS1A, LDS2A, SKR4, tbetaR-I, TGFB1R1, TGF-beta receptor type I, TGFbetaRI, TGFBRI, TGFbRI, TGFR-1

Molecular Weight:	37.6 kDa
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UniProt:	<a href="#">Q64729</a>
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Pathways:	<a href="#">Growth Factor Binding</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

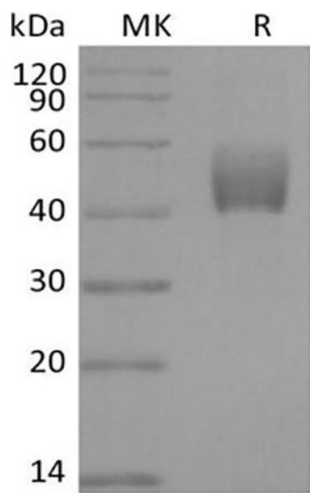
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	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.
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Western Blotting

Image 1.