

Product datasheet for **TP724740**

Tgfb2 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse TGFBR2 (N-hFc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Ile24-Asp184
Tag:	N-Human Fc
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse TGFBR2 (N-hFc) is produced by Human Cells. The target gene encoding Ile24-Asp184 is expressed with a N-hFc tag.
Stability:	12 months from date of despatch
Locus ID:	21813
UniProt ID:	Q62312
Summary:	<p>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 is also a membrane-bound serine/threonine kinase that apparently requires the presence of the Type II receptor to bind TGF-beta. Evidence suggests that signal transduction requires the cytoplasmic domains of both the Type I and Type II receptors (1). The recombinant soluble TGF-beta Type II receptor is capable of binding TGF-beta 1, TGF-beta 3, and TGF-beta 5 with sufficient affinity to act as an inhibitor of these isoforms at high concentrations. The soluble receptor also binds TGF-beta 2, but with an affinity at least two orders of magnitude lower. Binding of TGF-beta 1, TGF-beta 3, and TGF-beta 5 to the soluble TGF-beta Type II receptor can also be demonstrated by using the soluble receptor as a capture agent on ELISA plates and this observation has been used as the basis for the development of immunoassays for these isoforms of TGF-beta.</p>



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