

TGFB-R1

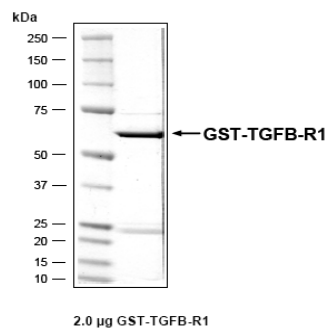
Recombinant Human TGF-beta RI/ALK-5 with GST-His Tag Active

Catalog No.	CRT011	Quantity:	50 µg
Alternate Names:	Transforming growth factor-beta receptor type I, AAT5, ALK5, SKR4, ALK-5, LDS1A, LDS2A, TGFR-1, ACVRLK4, TGFB-R1		
Description:	Recombinant active Human TGF-beta RI with GST-His Tag consists of a C-terminal fragment containing amino acids T₂₀₀-M₅₀₃ and an N-terminal GST-HIS₆ fusion protein with a Thrombin cleavage site. TGF-beta RI forms a heteromeric complex with TGF-beta receptors type II when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm.		
Concentration:	0.193 µg/µl		
Gene ID:	7046		
Source:	Sf9 insect cells		
Molecular Weight:	64,168 Da		
Formulation:	Liquid in 50 mM HEPES pH 7.5, + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione + 20% glycerol		
Purification:	GST-Affinity Chromatography		
Specific Activity:	501 pmol/µg×min.		
ATP-K_m	13 µM		
Activity Determination:	Assay conditions: 60 mM HEPES-NaOH, pH 7.5, + 3 mM MgCl₂, + 3 mM MnCl₂ + 3 µM Na-orthovanadate + 1.2 mM DTT + 50 µg/ml PEG 20,000 ATP: variable Substrate: 50 µg/ml Casein TGFB-R1 Concentration: 0.4 µg/ml Filter binding assay: MSFC membrane (Millipore)		
Storage & Stability:	Store at -80°C. Avoid repeated freeze-thaw cycles.		

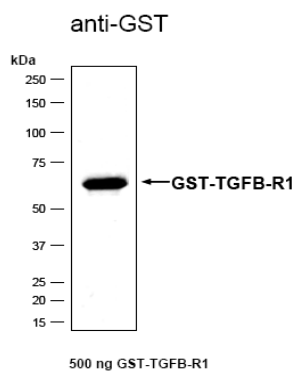


Coomassie stain and Western blot analysis:

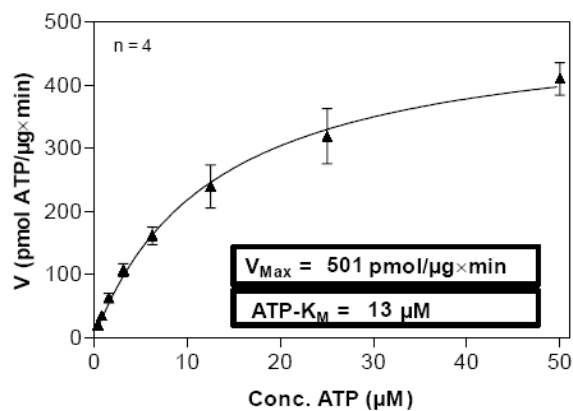
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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