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## Product Data Sheet

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Product Name: TGFBRAP1 Human  
 Cat. No.: GP24815  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TRAP-1; TRAP1; Transforming growth factor-beta receptor-associated protein 1; TGF-beta receptor-associated protein 1.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSKRLQ KEEYHTHLAV LYLEEVLLQR ASASGKGAEA TETQAKLRLLQKSDLYRVH FLLERLQGAG LPMESAILHG KLGEHEKALH ILVHELQDFA AAEDYCLWCS EGRDPPHRQQLFHTLLAIYL HAGPTAHELA VAAVDLLNRH ATEFDAAQVL QMLPDTWSVQ LLCPFLMGAM RDSIHARRTMQVALGLARSE NLIYTYDKMK LKGSSIQLSD KKLCQICQNP FCEPVFVRYP NGGLVHTHCA ASRHTNPSSSSPGTRT		
Formulation	TGFBRAP1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

TGF-beta receptor-associated protein 1 also known as TGFBRAP1 takes part in the TGF-beta/activin signaling pathway. TGFBRAP1 is related with inactive heteromeric TGF-beta and activin receptor complexes, mainly through the type II receptor, and is released upon activation of signaling. TGFBRAP1 recruits SMAD4 to the vicinity of the receptor complex and smoothes the progress of its interaction with receptor-regulated Smads, such as SMAD2.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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TGFBRAP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 296 amino acids (601-860 a.a) and having a molecular mass of 33kDa. TGFBRAP1 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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