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**Product Data Sheet**


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Product Name: TACI Human, Sf9  
 Cat. No.: GP20933  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tumor Necrosis Factor Receptor Superfamily Member 13B; Tumor Necrosis Factor Receptor Superfamily; Member 13B; Transmembrane Activator And CAML Interactor ;TACI ;Tumor Necrosis Factor Receptor 13B; CD267 Antigen; TNFRSF14B; CD267; CVID2; IGAD2; CVID; RYZN.		
Amino Acid Sequence	ADLMSGLGRS RRGGRSRVDQEERFPQGLWT GVAMRSCPEE QYWDPLLGTCS MSCKTICNHQ SQRTCAAFCR SLSCRKEQGK FYDHLLRDCI SCASICGQHPKQCA YFCENK LRSPVNLPE LRRQRSGEVE NNSDNSGRYQ GLEHRGSEAS PALPGLKLSA DQVALVYSLEPKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHNAKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAIEKTI SKAKGQPREP QVYTLPPSRDELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTTP VLDSGDGSFFL YSKLTVDKSR WQQGNVFSCSVMHEALHNHY TQKSLSLSPG KHHHHHH.		
Formulation	TACIa protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4), 30% glycerol and 1mM DTT.		

**Introduction**

TNFRSF13B (TACI) is a transmembrane receptor protein found predominantly on the surface of B cells (a significant part of the immune system). TACI was at first discovered owing to its ability to interact with calcium-modulator and cyclophilin ligand (CAML). Later on, it was found that TACI plays a key role in humoral immunity by interacting with two members of the TNF family. Also, TACI controls T cell-independent B cell antibody responses, isotype switching, and B cell homeostasis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TACI produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 407 amino acids (1-165a.a.) and having a molecular mass of 45.8kDa (Molecular size on SDS-PAGE will appear at approximately 25-50kDa). TACI is expressed with a 242 amino acid hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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