

TECHNICAL DATA SHEET

Recombinant Human TACI (Carrier-free)

Catalog Number: 21-7158

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human TACI (Carrier-free)

DESCRIPTION

TACI (Transmembrane activator and CAML interactor) is a member of the TNF receptor superfamily. Similar to the related BCMA protein, it binds both APRIL and BAFF (BLyS) to mediate NKF-kappaB responses. It is expressed by mature B lymphocytes and plays an important role in positive regulation of B cell growth and antibody production. TACI supports survival of activated B cells and plasmablasts in vitro.

MOLECULAR MASS

Recombinant Human TACI is a 17.8 kDa protein consisting of 159 amino acids that correspond to the cysteine-rich extracellular domain.

AMINO ACID SEQUENCE

SGLGRSRRGG RSRVDQEERF PQGLWTGVAM RSCPEEQYWD PLLGTCMSCK TICNHQSQRT CAAFCSRSLSC RKEQGKIFYDH LLRDCISCAS ICGQHPKQCA YFCENKLRSP VNLPPELRRQ RSGEVENNSD NSGRYQGLEH RGSEASPALP GLKLSADQV

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Within a concentration range of 1.0-3.0 µg/ml, its ability to block human BAFF-induced T2B cell survival is determined.

RESEARCH AREAS

TNF Superfamily, Immune System, Cancer, Inflammation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

von Bülow GU, van Deursen JM and Bram RJ. 2001. *Immunity*. 14(5): 573-582. Bossen C, Cachero TG, Tardivel A, Ingold K, Willen L, Dobles M, Scott ML, Maquelin A, Belnoue E, Siegrist CA, et al. 2008. *Blood*. 111(3): 1004-1012. Wu Y, Bressette D, Carrell JA, Kaufman T, Feng P, Taylor K, Gan Y, Cho YH, Garcia AD, Gollatz E, Dimke D, LaFleur D, Migone TS, Nardelli B, et al. 2000. *J Biol Chem*. 274(45): 35478-35485.

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