

Active Recombinant Human TACE (TNF-alpha converting enzyme, ADAM17)

CATALOG #: 7607-20 20 µg
7607-100 100 µg
7607-1000 1 mg

LOT #: _____

SOURCE: Insect cell

PURITY: ≥ 90 % by SDS-PAGE

SPECIFIC ACTIVITY: ≥ 280 units/mg

MOLECULAR WEIGHT: 62 kDa

FORM: The untagged rh-TACE (TNF-alpha converting enzyme) is supplied as a lyophilized powder.

STORAGE CONDITIONS: Stable for 1 year at -70°C. For long term storage, it is recommended to add a carrier protein (0.1% BSA). Avoid multiple freeze/thaw cycles.

RECONSTITUTION: With sterile deionized water at 0.1µg protein/µl.

BACKGROUND DESCRIPTION:

TACE (TNF-alpha converting enzyme, ADAM17) is a membrane-bound Metalloprotease from the ADAM (a disintegrin and Metalloprotease) family of proteins. It cleaves 26kDa type II membrane-bound precursor of TNF-α into 17 kDa mature form which is secreted. TACE is also known to process other membrane proteins including TNF receptor, TGF-α and amyloid protein precursor. Recombinant active untagged TACE amino acid sequence is from Arg215 to Asn651. The apparent molecular weight is bigger than the calculated MW due to the protein posttranslational modification in eukaryotic system.

APPLICATION AND USAGE:

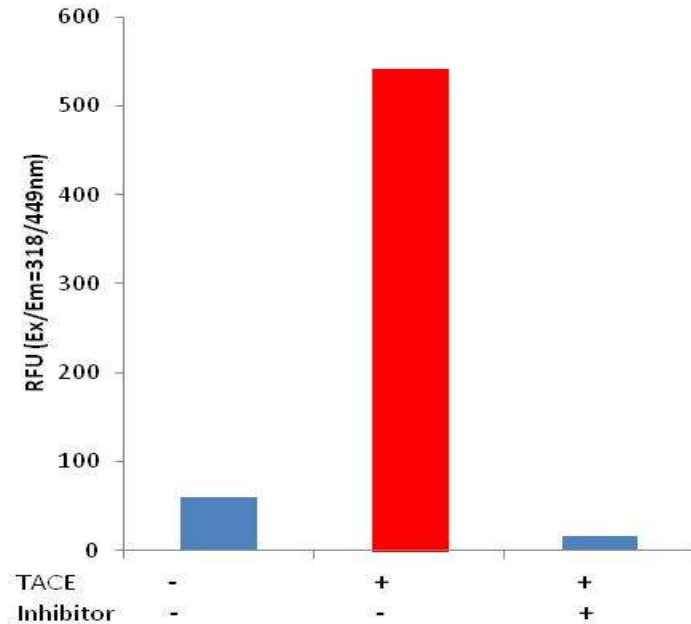
Active TACE is useful in studying enzyme regulation, determining target substrates, screening TACE inhibitors, or as a positive control in TACE activity assays. We recommend using 0.1-0.2 µg protein/assay for analyzing TACE activity.

ACTIVITY:

Activity of TACE was tested using the synthetic peptide, Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-Dpa(Dnp)-NH₂, as a substrate.

UNIT DEFINITION:

One unit of the recombinant TACE is defined as the amount of enzyme that completely digests 1 nmol of substrate Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-Dpa(Dnp)-NH₂ per minute at 37°C in a reaction solution containing 50 mM Tris, pH 7.5 and 0.1% NP-40.



TACE Activity Assay. The activity of TACE was determined using the 20µM substrate Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-Dpa(Dnp)-NH₂. (GM6001 is an inhibitor of TACE. GM6001 at 2µM completely inhibited TACE activity)

RELATED PRODUCTS:

- Batimastat (Cat. No. 1704-1)
- GM6001 (Cat. No. 1799-1)
- Marimastat (Cat. No. 1790-1, 5)
- MMP-1 Inhibitor Screening Kit (Cat. No. K794-100)
- MMP-3 Activity Assay Kit (Cat. No. K783-100)
- MMP-9 Antibody (Cat. No. 3529-100)
- MMP-9 Antibody (Cat. No. 3969-200)
- MMP-9 Antibody (Cat. No. 5565-100)
- MMP-9, human recombinant (Cat. No. 7789-10, 50, 1000)
- MMP-9 Inhibitor (Cat. No. 1981-500)
- TAPI-0 (Cat. No. 2067-1)
- TAPI-2 (Cat. No. 2069-1)