ADAM17 (catalytic domain) (human), (recombinant) (His-tag)

ADAM17/TACE is a soluble or membrane-bound metalloproteinase primarily responsible for activation of proTNF-α, while also targeting proteins such as fractalkine, amyloid precursor proteins, and CD40. ADAM17/TACE is involved in cancer, vascular disorders, and inflammatory diseases such as rheumatoid arthritis and focal ischemic injury. The catalytic domain of ADAM17/TACE is able to cleave proTNF-α and can be used in inhibitor screening.

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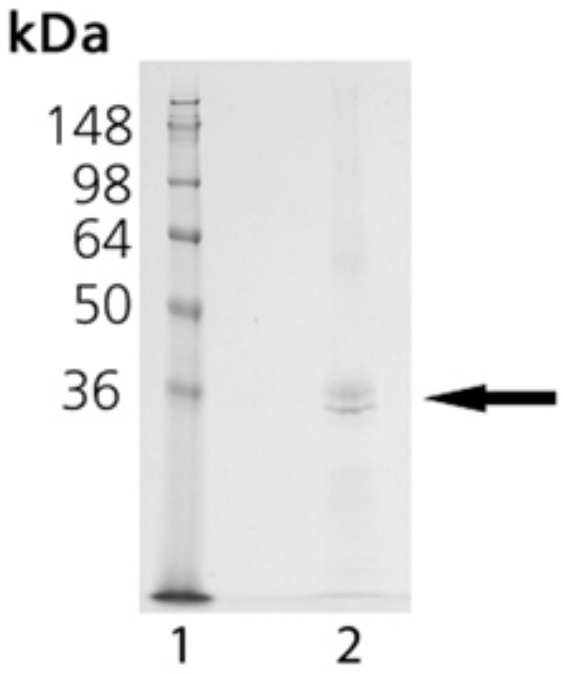
BML-SE268-0010	10µg

Manuals, SDS & CofA View Online »



SDS-PAGE analysis: Lane 1: MW Marker; Lane 2: 1.0 µg of Prod. No. BML-SE268 ADAM17 (catalytic domain) (human), (recombinant) (His-tag).

Handling & Storage

Use/Stability	Salts (sodium chloride, calcium chloride, etc.) in the assay are inhibitory. ADAM17/TACE is stable after 6 freeze-thaws at ~0.4µg/µl; freeze-thaw stability of more dilute preparations has not been tested and could lead to loss of activity.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	TACE, A disintegrin and metalloproteinase 17, Tumor necrosis factor-α-converting enzyme
Application Notes	Useful tool to study enzyme kinetics, cleave target substrates, screen inhibitors.
Formulation	Liquid. In 22.5mM TRIS, pH 7.5, containing 4.5µM $ZnCl_2$, 0.0045% Brij-35 and 10% glycerol.
MW	~30.5kDa (calculated), ~36kDa doublet (SDS-PAGE)
Purity	≥90% (SDS-PAGE)
Purity Detail	Purified by multi-step chromatography.
Sequence	Recombinant glycosylated catalytic domain (aa Pro^{18}-Val^{477}) of ADAM17/TACE (A disintegrin and metalloproteinase 17; Tumor necrosis factor-α-converting enzyme), cloned from human cDNA (NM_003183), secreted as mature, active enzyme from insect cells, and purified using a C-terminal His-tag.
Source	Produced in insect cells. Produced in a baculovirus expression system.
Specific Activity	≥1800 U/µg enzyme. One unit will hydrolyze one pmole Mca-PLAQAV-Dpa-RSSSR-NH_2 substrate (Prod. No. BML-P132) (10µM) per minute at 37°C, in 25mM TRIS, pH 9.0.
UniProt ID	P78536

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