ADAM17 fluorometric drug discovery kit

The *ADAM17 Fluorometric (also known as fluorimetric) Drug Discovery Kit* is a complete assay system designed to screen ADAM17 (TACE) inhibitors using a quenched fluorogenic peptide: Mca-PLAQAV-Dpa-RSSSR-NH_2. Mca fluorescence is quenched by the Dpa group until cleavage by proteases separates the two moieties. The assays are performed in a convenient 96-well microplate format. The kit is useful to screen inhibitors of ADAM17, a potential therapeutic target. The compound GM6001 is also included as a prototypic control inhibitor.

TACE/ADAM17 (Tumor necrosis factor-α-converting enzyme; A Disintegrin And Metalloproteinase 17) 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 is used in inhibitor screening.

Ordering Information

Order Online »

BML-AK310-0001	96 wells

Manuals, SDS & CofA

View Online »

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	TACE, A disintegrin and metalloproteinase 17
Application	Activity assay, Fluorescent detection, HTS
Application Notes	Designed to screen ADAM17 (TACE) inhibitors using a quenched fluorogenic peptide.
Contents	1 vial ADAM17 enzyme 1 vial Substrate (Mca-PLAQAV-Dpa-RSSSR-NH_2) 1 vial CALIBRATION STANDARD 1 vial control inhibitor (GM6001) 1 bottle (20 ml) assay buffer 1 black 96-well microplate Instructions
UniProt ID	P78536

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