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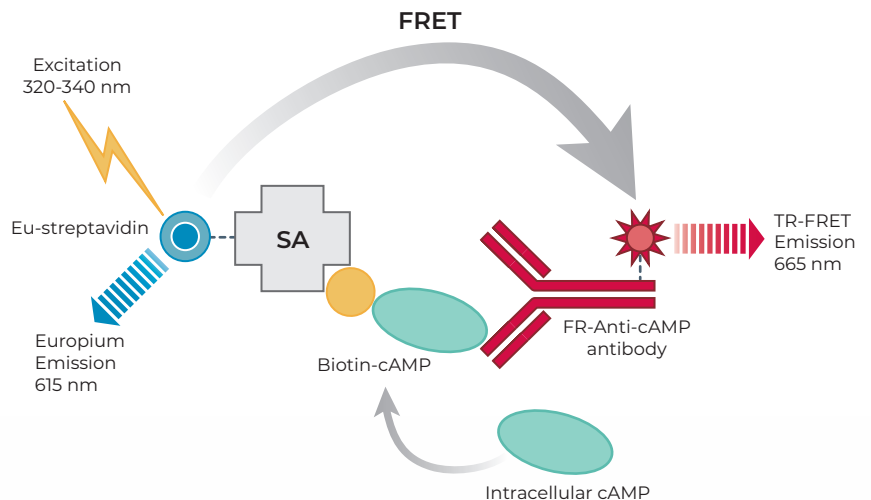
# THUNDER™ cAMP TR-FRET Assay Kit

## SIMPLICITY, SPEED, ROBUSTNESS, AND VALUE

BioAuxilium Research has expanded its line of high-quality, fully validated cell-based assay kits with the launch of the THUNDER™ cAMP TR-FRET Assay Kit. Based on BioAuxilium’s versatile and cost-effective THUNDER™ TR-FRET technology platform, this assay kit provides a simple, rapid, robust, and affordable tool to measure intracellular cAMP changes following G-protein coupled receptor (GPCR) activation.

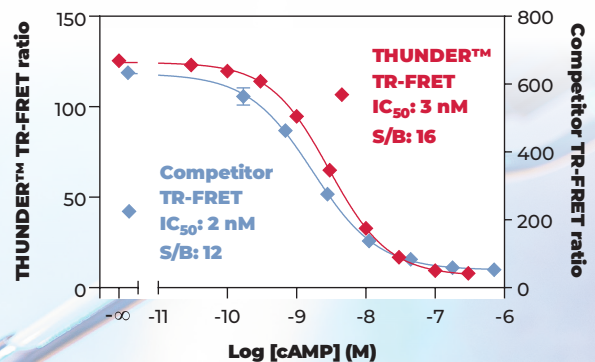
### HOW DOES IT WORK?

Free cAMP produced by cells competes with the Europium labeled streptavidin/ biotin-cAMP tracer complex for binding to a monoclonal cAMP antibody labeled with the far-red fluorophore. The specific TR-FRET signal is therefore inversely proportional to the concentration of cAMP in the lysate.



### ASSAY WORKFLOW

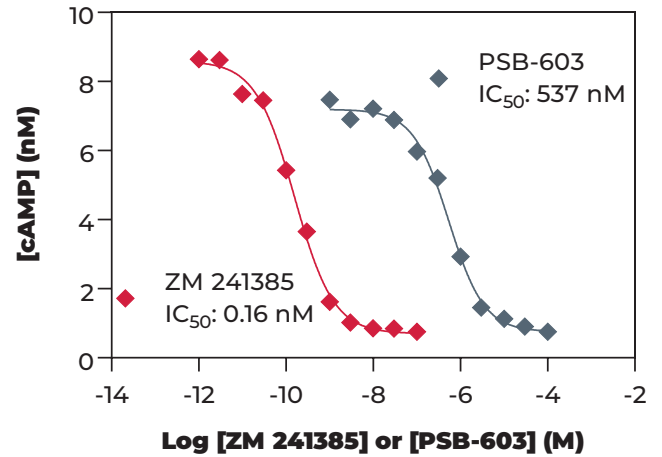
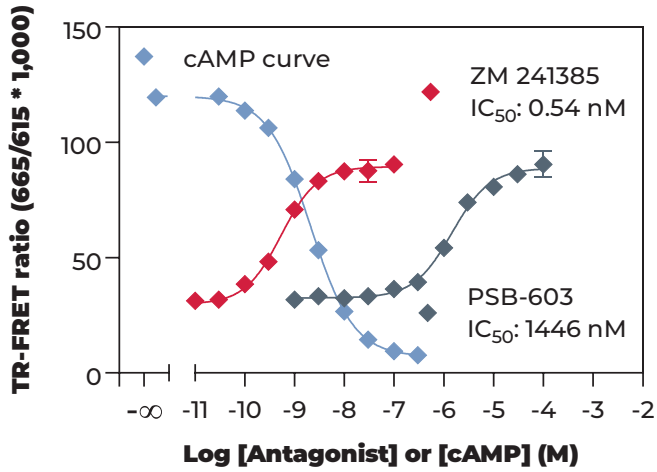
STEP 1	STEP 2
<b>Cell treatment</b> → Seed cells → Treat cells (stimulator and/or inhibitor)	<b>Lysis and cAMP detection</b> → Add Acceptor-anti-cAMP → Add Europium-Streptavidin /biotin-cAMP → Incubate for 1 hour & read TR-FRET signal



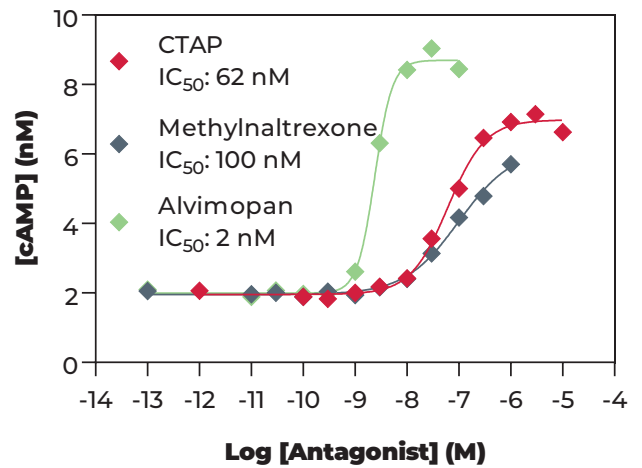
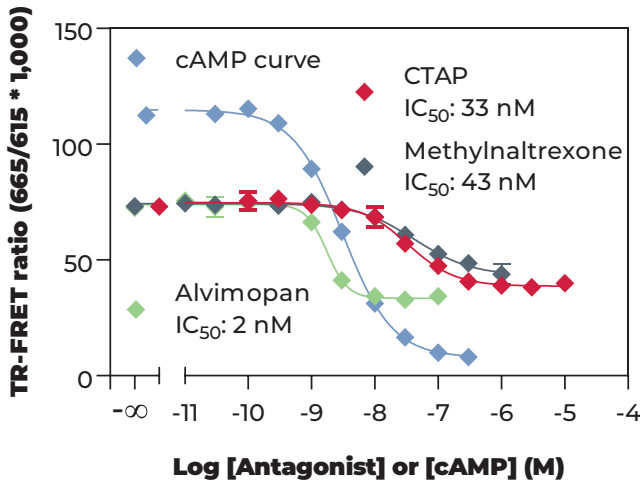
### KEY ADVANTAGES

EASY – no-wash “add-incubate-read” protocol	RELIABLE – Fully validated on cells expressing endogenous and recombinant GPCRs
FAST – 1 hour incubation (following cell treatment)	VERSATILE – Suitable for screening and characterization of Gs- and Gi-coupled GPCRs
THUNDER™ TR-FRET technology: sensitive, reproducible, and robust assay performance	COST-EFFECTIVE – Flexible kit formats and outstanding value

## ASSAY VALIDATION



Antagonist profiling in U266B1 cells expressing the endogenous Gs-coupled Adenosine A2a receptor.



Antagonist profiling in CHO cells expressing the Gi-coupled human Opioid Mu OP3 receptor.

## KIT CONTENTS

cAMP Standard
Biotin-cAMP
Europium-labeled streptavidin
Acceptor-labeled anti-cAMP antibody
cAMP Detection Buffer

## ORDERING INFORMATION

KIT SIZE	Catalog No.
1,000 points	KIT-CAMP-1000
5,000 points	KIT-CAMP-5000
20,000 points	KIT-CAMP-20000

\* Higher sizes are available on request, please contact us.

\*\* The number of assay points is based on an assay volume of 20 µL in low-volume 384-well assay plates.



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TO PLACE AN ORDER: [sales@bioauxilium.com](mailto:sales@bioauxilium.com)

FOR MORE INFORMATION: [info@bioauxilium.com](mailto:info@bioauxilium.com)

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