

**GeneBLAzer® ADORA3-Gα15-NFAT-*bla* CHO-K1 Cells**

Catalog Numbers – Early Access

**Cell Line Descriptions**

GeneBLAzer® ADORA3-Gα15-NFAT-*bla* CHO-K1 cells contain the human Adenosine A3 Receptor (ADORA3) stably integrated into the GeneBLAzer® Ga15-NFAT-*bla* CHO-K1 cell line. GeneBLAzer® Ga15-NFAT-*bla* CHO-K1 cells (Cat. no. K1537) contain a beta-lactamase reporter gene under control of the NFAT Response Element and a promiscuous G protein, Gα15. GeneBLAzer® ADORA3-Gα15-NFAT-*bla* CHO-K1 cells are functionally validated for Z'-factor and EC<sub>50</sub> concentrations of NECA (Figure 1).

## Validation Summary

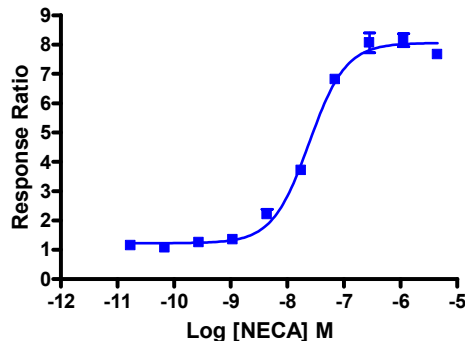
Testing and validation of this assay was evaluated in a 384-well format using LiveBLAzer™-FRET B/G Substrate.

### 1. 5'-(N-Ethylcarboxamido)adenosine dose response under optimized conditions

EC <sub>50</sub>	24 nM
Z'-factor	0.80
Recommended cell no. /well	= 10,000
Recommended Stim. Time	= 5 hrs
Max. [Stimulation]	= 4500 nM

## Primary Agonist Dose Response

**Figure 1 – GeneBLAzer® ADORA3-Gα15-NFAT-*bla* CHO-K1 cells dose response to 5'-(N-Ethylcarboxamido)adenosine under optimized conditions**



GeneBLAzer® ADORA3-Gα15-NFAT-*bla* CHO-K1 cells (10,000 cells/well) were plated in a 384-well format and incubated for 16-20 hours. Cells were stimulated with a dilution series of 5'-(N-Ethylcarboxamido)adenosine (Sigma E2387) in the presence of 0.1% DMSO for hours. Cells were then loaded with LiveBLAzer™-FRET B/G Substrate for 2 hours. Fluorescence emission values at 460 nm and 530 nm were obtained using a standard fluorescence plate reader and Response Ratio plotted for each replicate against the concentrations of 5'-(N-Ethylcarboxamido)adenosine.