

HUMAN HEALTH

ENVIRONMENTAL HEALTH

LANCE *ULTRA* cAMP SEE MORE FROM THE WORLD'S WIDEST ASSAY WINDOW

NOW 3X THE SENSITIVITY, 80% FEWER CELLS

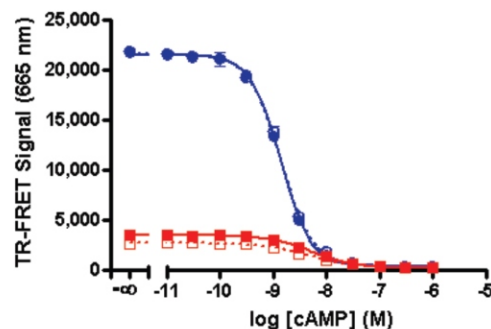
Increase your range of GPCR targets while getting more robust and confident data in a shorter run time from the widest assay

window available. PerkinElmer's LANCE® *Ultra* cAMP assay offers unmatched sensitivity using a simple TR-FRET protocol all in a single kit –ideal for any application. Use with PerkinElmer's validated Total GPCR Solution including cAMPZen® frozen cell lines.

LANCE *Ultra* cAMP offers:

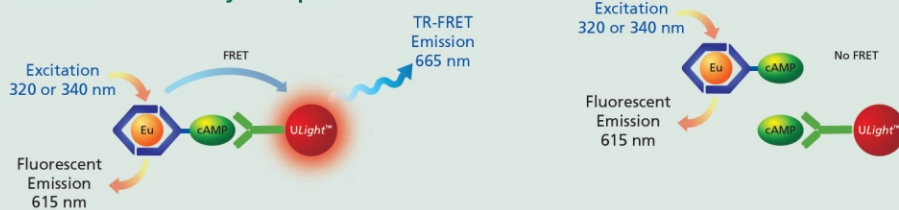
- Unmatched assay sensitivity and signal stability—even with overnight incubation
- Optimized screening of difficult targets and G_o antagonists
- Easier detection of cAMP response of endogenous receptors—use fewer cells per well
- Robust sensitivity when miniaturized to 1536-well format for uHTS
- Trusted results: stable pharmacology over time with consistent rank order potencies
- Reproducible results with highest Z' values

	S/B	IC ₅₀ (nM)
● LANCE <i>Ultra</i> (1 hr)	69	1.3
○ LANCE <i>Ultra</i> (O/N)	70	1.4
■ Company C (1 hr)	17	5.4
□ Company C (O/N)	13	4.6

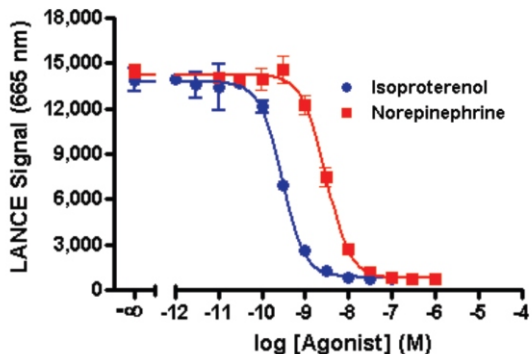


Sensitivity: Unlike other cAMP assay options, the LANCE *Ultra* cAMP assay offers both higher sensitivity and a wider assay window that is not affected by overnight incubation.

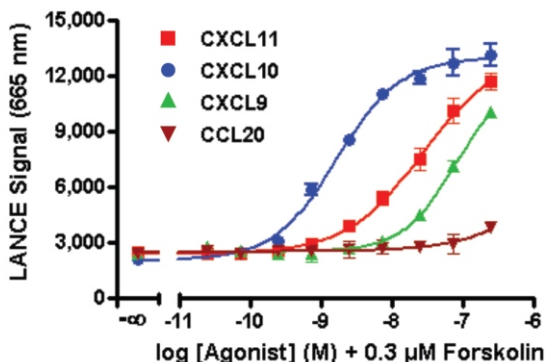
LANCE *Ultra* cAMP Assay Principle



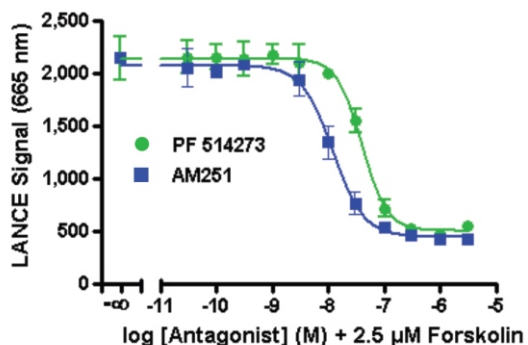
Visit www.perkinelmer.com/openthewindow



Endogenous Receptors: Response of endogenous receptors is easily detected with the LANCE *Ultra* cAMP assay. Shown is the functional analysis of endogenous β -adrenergic receptors in the frozen SK-N-MC cell line (2,000 cells/well).



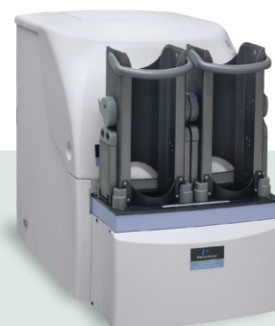
Consistent Rank Order Potencies: Agonist-induced cAMP response in frozen CHO-CXCR3 cells (2,000 cells/well). The observed rank order of potencies and efficacy is consistent with published data (CXCL11 > CXCL10 > CXCL09).



Difficult G_{oi} -coupled Receptors: Superior sensitivity opens the possibilities for dealing with challenging assays like the G_{oi} -coupled CB1 (cannabinoid receptor 1) in frozen cell format. Shown is antagonist-induced cAMP response in cAMPZen CHO-CB1 cells (2,500 cells/well).

Choose the cAMP GPCR Total Solution

The EnVision® Multilabel Plate Reader delivers optimized performance for TR-FRET detection. Optional 20 or 50 magazine stackers with an average read time of 32 s per 384-well plate, makes it ideal for use with LANCE *Ultra* cAMP where the same strong TR-FRET signal is observed first plate in to last plate out. Further optimize your results with PerkinElmer cell lines, frozen cells, or microplates. For more information visit www.perkinelmer.com/GPCR.



Ordering information:

Description	Part number	Assay points	Format
LANCE <i>Ultra</i> cAMP kit	TRF0262	1,000	384-well
	TRF0263	10,000	
	TRF0264	50,000	

For more information on how to increase your range of GPCR targets through the widest cAMP window available, please visit www.perkinelmer.com/openthewindow or contact your local sales representative.