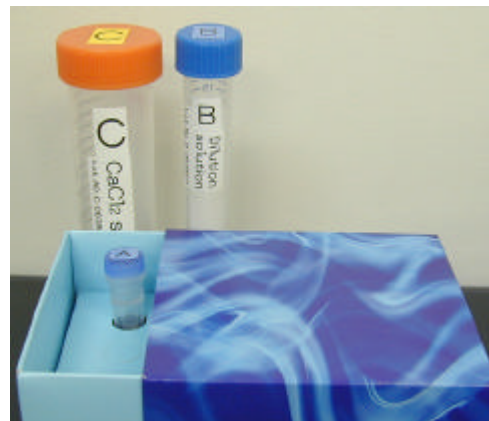


# Aequorin Luminescence Standard Kit

Product code : CM9910

## Kit Contents

- A** : Aequorin solution (50 µg): 1 µg/µl Aequorin-Chisso.
- B** : Dilution solution (10 ml): 0.1% Bovine serum albumin in 10 mM EDTA-50 mM Tris-HCl (pH7.6).
- C** : 50 mM CaCl<sub>2</sub> solution (50 ml): 50 mM CaCl<sub>2</sub> in 50 mM Tris-HCl (pH7.6).



## Assay Protocol

- Step 1. Dilute "Aequorin stock solution (A)" with "Dilution solution (B)".  
e.g. First, prepare 100 ng/ml solution of aequorin and then diluted by 10 times (0 ~ 10000 pg/µl).
- Step 2. Put diluted aequorin into assay plate or tube for luminometer.  
e.g. 3 µl of aequorin solution in 96-well white plate (Nunc. #236108) or polystyrene tube (12 mm x 75 mm; Quality Scientific Plastics, #530-B-1-Q).
- Step 3. Inject "CaCl<sub>2</sub> solution (C)" into diluted aequorin solution in plate/tube and measure for 5 sec in 0.1 sec interval with luminometer.  
e.g. Centro LB960 (Berthold Technologies).

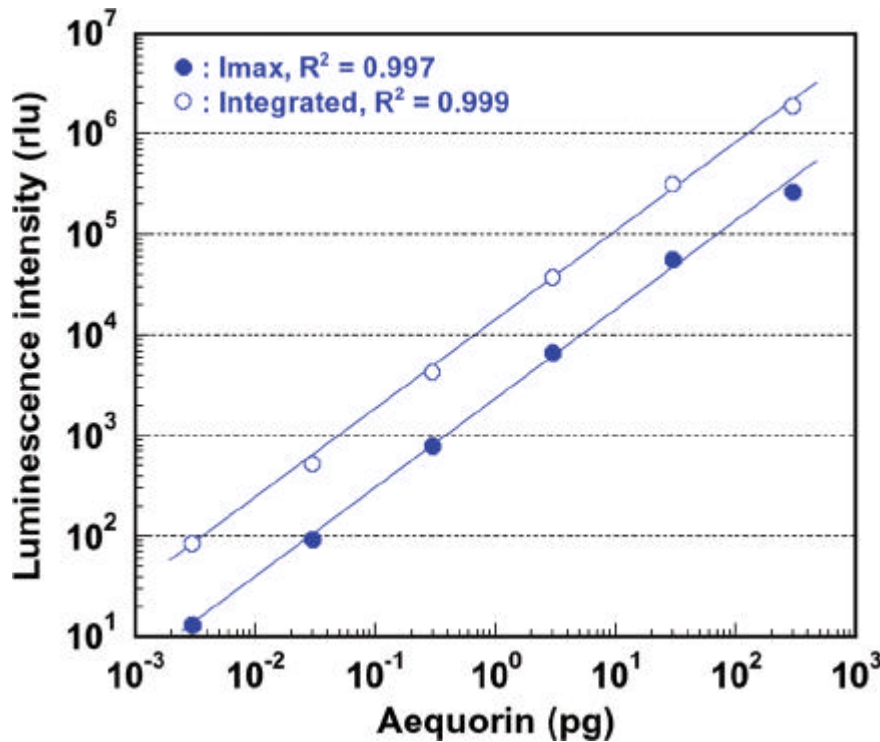
## Aequorin concentration and luminescence intensity

Aequorin (pg / 3 µl)	Luminescence Intensity <sup>a</sup> (Imax)	SD	CV (%)	Luminescence Intensity <sup>a,b</sup> (Integrated)	SD	CV (%)
0	8	2	21.8	28	2	8.1
0.003	13	1	8.5	85	5	6.2
0.03	94	4	4.4	528	18	3.5
0.3	793	32	4.1	4331	149	3.4
3	6738	535	7.9	37282	1834	4.9
30	56378	1785	3.2	314661	11140	3.5
300	266394	3083	1.2	1861848	34550	1.9
3000	Range over	†	†	Range over	†	†
30000	Range over	†	†	Range over	†	†

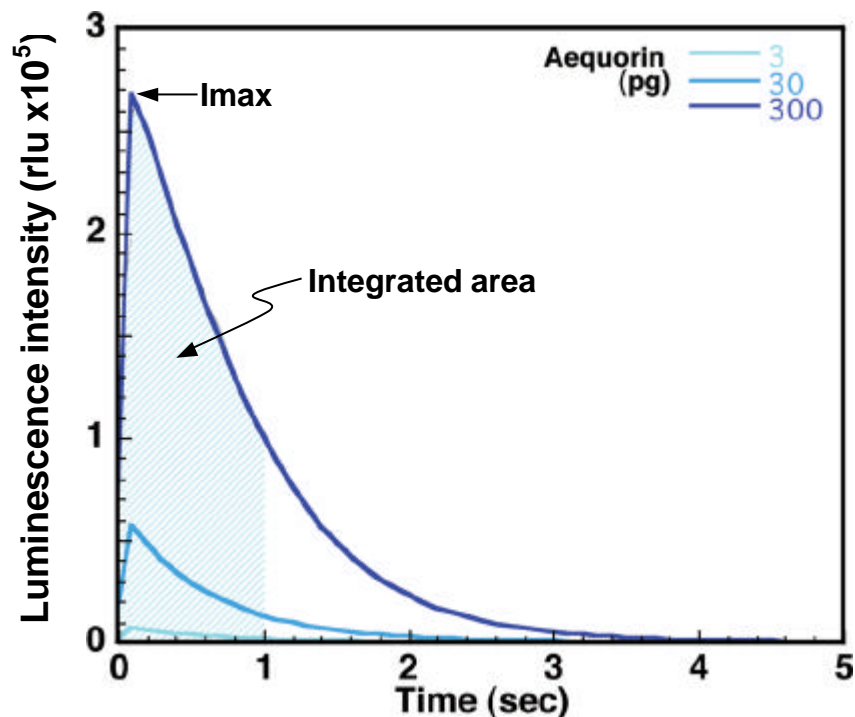
<sup>a</sup> n = 5    <sup>b</sup> Integrated for 1 sec in 0.1 sec interval.

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## Luminescence standard curve of aequorin



## Ca<sup>2+</sup>-triggered luminescence pattern of aequorin



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