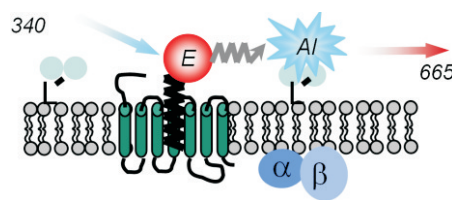


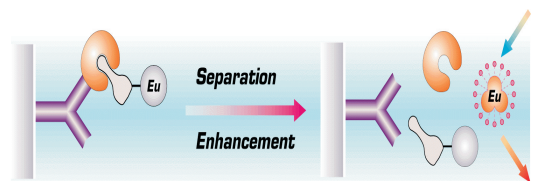


# QuickAllAssay™ - Europium Chelate Protein Labelling Kit

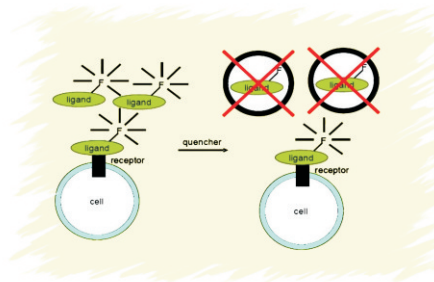
## Homogeneous TR FRET



## Separation Assays



## Homogeneous QRET



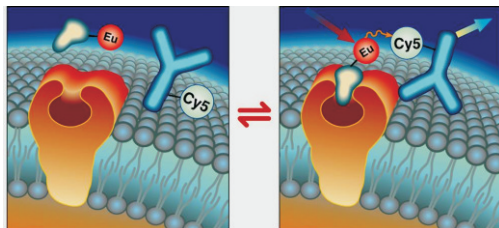
- One kit for all assay formats
- Contains the reagents for labelling proteins with europium chelates
- For both the homogeneous TR FRET and QRET assays and for separation based enhanced time-resolved fluorescence assays
- Very good biocompatibility with minimum effects on the reaction properties of biomolecules
- Efficient FRET donor: very high proportional energy transfer efficiency
- Very good emission profile: virtually no background at 665nm



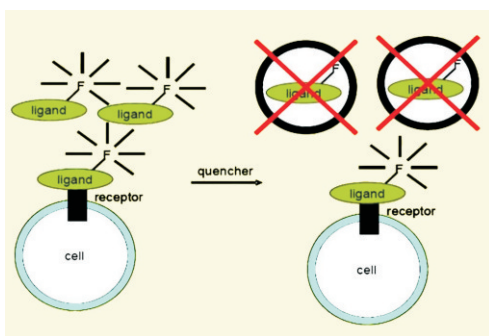
The kit contains the reagents required for labelling proteins with europium chelate for inclusion into TR FRET and QRET assays and for separation based enhanced time-resolved fluorescence assays. The coupling to the protein is via gentle isothiocyanate or other defined linker reaction.

### Assay technology descriptions

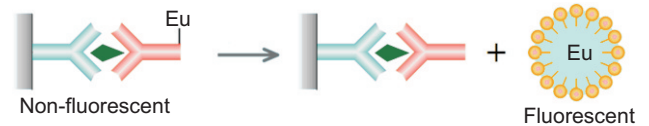
**TR FRET** (Time-Resolved Fluorescence Resonance Energy Transfer) requires a suitable acceptor molecule for the Europium chelate. FRET uses two fluorophores, a donor and an acceptor. Excitation of the donor by a suitable energy source triggers an energy transfer to the acceptor if they are within a given proximity to each other. The acceptor in turn emits light at its given wavelength.



**QRET (Quenched Resonance Energy Transfer)** requires only the ligand to be labelled with the europium chelate. The soluble quencher causes modulation of the chelate fluorescence enabling direct measurement of bound complexes in the presence of the free labelled ligand. Any free labelled ligand is quenched.



**Separation based TRF** assays offer a superior alternative to traditional ELISA technology. Our TRF assays are significantly more sensitive, have a broader dynamic range and are more robust than enzyme-based assays. Separation assays require a coated plate as the solid phase. The plates can be coated with cells, antibodies, streptavidin or other suitable tags.



### Product Information

#### Labelling Kits

Kit contents:

- ♦ Lyophilized Europium chelate
- ♦ Europium standard
- ♦ Enhancement solution for separation assays
- ♦ Full instructions

E41000 QuickAllAssay Labelling Kit, 1mg

E40200 QuickAllAssay Labelling Kit, 200ug

E40000 QuickAllAssay Evaluation Labelling Kit

#### Activated Chelates

CE1000 QuickAll Assay chelate (activated), 1mg

CE0500 QuickAllAssay chelate (activated), 500ug

SC0500 Special chelate for homogeneous assays in 500ug high EDTA & salt environments

#### Enhancement Solution

E51000 Enhancement Solution, 1 Litre

E50250 Enhancement Solution, 250ml

E50050 Enhancement Solution, 50ml

#### Coated Plates

Contact us for availability

**BN P & S offers technical assistance for assay development or labelling service for small molecules.**

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