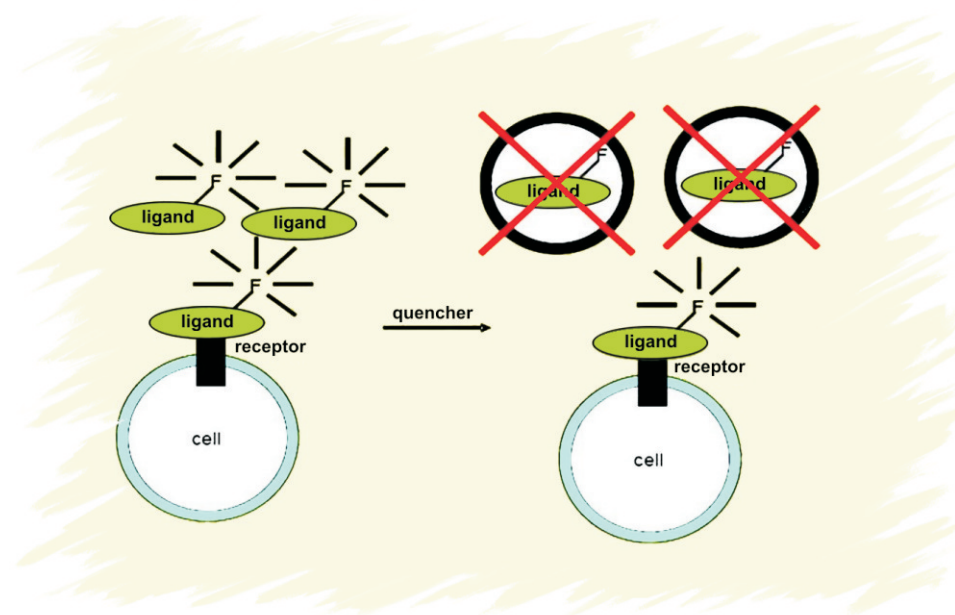




QRET™ Homogeneous Assay Products

Homogeneous QRET



- Quenched resonance energy transfer (QRET) is a novel proprietary single label method based on time-resolved fluorescence detection technology
- QRET only requires the ligand or antigen to be labelled
- Rapid and cost-effective for small molecule and cell-based detection
- Allows simple assay setup matching the existing labelling technologies, instrumentation and microtitration plate formats



Principle of QRET™ technology

The homogeneous, sensitive and single-label **QRET (Quenched Resonance Energy Transfer)** assay is a novel proprietary* method based on time-resolved fluorescence detection technology utilizing lanthanide chemistry and a soluble fluorescence quencher, active at the lanthanide emission wavelength. QRET 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. The assay is rapid and cost-effective for small molecule and cell-based detection and quantification in solution. QRET allows simple assay setup matching the existing labelling technologies.

The QRET-product comprises of a combination of labelling service, assay development and technology transfer. The process can be divided into these two phases:

Phase 1: Labelling and test assay development. The target small drug molecule is synthesized with a suitable linker arm. This molecule is labelled in BN Products & Services laboratories in Finland and used to develop the working test assay. Alternatively the experienced researcher may wish to conduct this process on site. Phase 2 is entered as soon as Phase 1 is working to the satisfaction of the client.

Phase 2: BN Products & Services will develop a fully optimized screening assay, calculating the amount of reagents required for the whole screen. The resulting product will be delivered as a combination of all reagents for the screen under a technology transfer agreement to enable the assay to be run successfully. On site training is included.

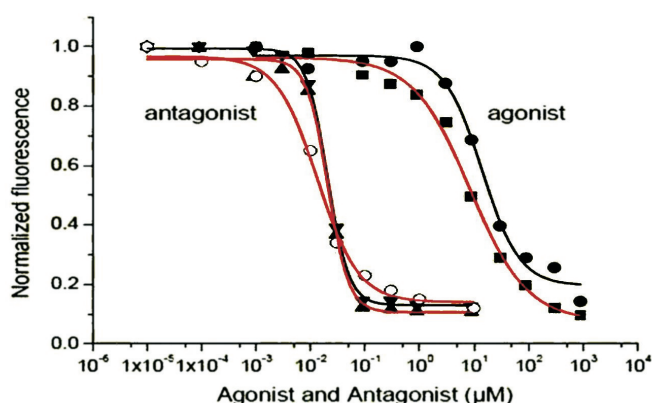
*QRET is a trademark of QRET Technologies Oy, Finland

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Product Information

Assays available:

Q10000	QRET Assay Beta-2 adreno-receptor
Q20000	QRET Assay Estradiol immunoassay
Q30000	QRET Assay GTP binding assay
Q40000	QRET Assay GTP Assay : Agonist stimulation of 2-adreno-receptor
Q50000	QRET Assay Estrogen Receptor-ligand binding
Q60000	QRET Assay Cyclic AMP assay
Q70000	QRET Assay Endogenous alpha receptor-ligand
Q80000	QRET Assay Delta Opiate Receptor ligand assay
Q90000	QRET Assay GTP'ase (small) GDP-GTP exchange
QCA00	QRET Custom assay development



β 2-AR QRET assay for agonist metaproterenol (■) and terbutaline (●) and antagonist propranolol (▲) and alprenolol (▼). [3 H]alprenolol radioligand displacement assay for propranolol (○).



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