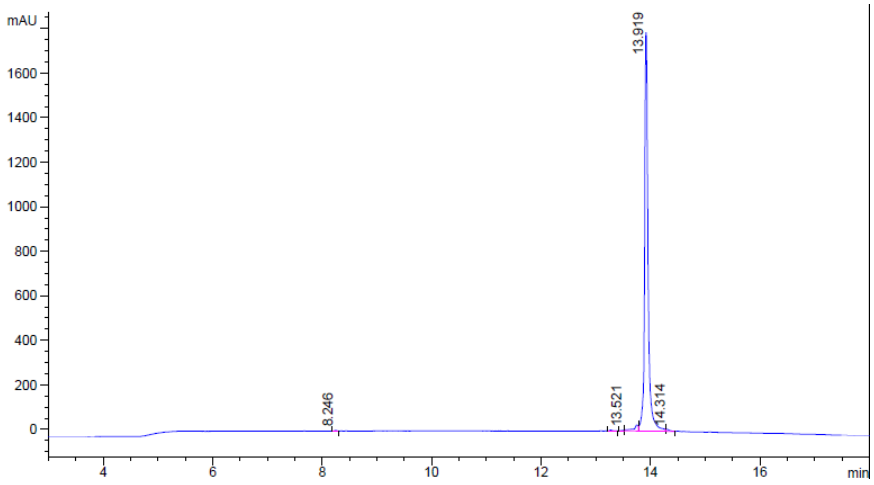
Fluorescein DPc10 Inactive Peptide

Quality Control Certificate of Analysis
Catalogue No.: A010-517
Unit Size: 200µg
Lot no.: 642050

Description	Negative control for Fluorescein DPc10 Peptide. DPc10 inactive peptide is a 36-residue peptide that differs from DPc10 (Gly2460-Pro2495, rabbit) at one position (R2475S) and represents the sequence of a known CPVT mutant RYR2 domain. This peptide binds weakly or fails to bind to the DPc10 interface and does NOT affect channel function. DPc10 inactive in the current form is not cell permeable. The product is useful in applications that permit access to RYR2 directly (via whole cell patch, skinned cells, black lipid membrane, vesicles, or upon delivery to cytoplasm).
Quantity supplied	200µg net peptide*.
Peptide name	Fluorescein DPc10 Inactive Peptide
Peptide sequence	5Flu-GFCPDHKAAMVLFLDSVYGIEVQDFLLHLLEVGFLP
N-terminus	5 Carboxyfluorescein
C-terminus	Acid
Counter ions	Trifluroacetate (TFA)
Molecular weight	4393.046
Purity	97%
HPLC analysis	

Trace: HPLC Analysis of Fluorescein DPc10 Inactive Peptide. Analysis carried out using 100Å 4.6 x 150mm column, gradient from 10%-90% acetonitrile, in 15 minutes. Dissolved in DMSO. Purity determined as 97%.

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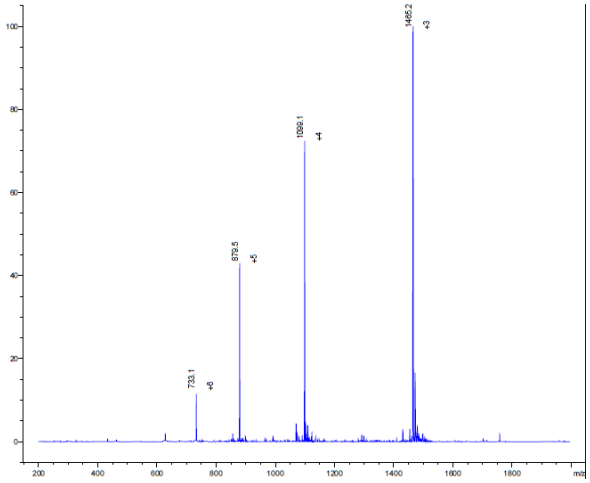
MS analysis



Trace: Molecular ion predicted: 4393.046, observed: 4392.6 [M+3H]. The range of molecular ions observed is due to the various multiply charged forms of the peptide ([M+3H], [M+4H], etc.).

Appearance	Lyophilised yellow powdered solid
Solubilisation	Dimethyl sulfoxide (DMSO), use minimum volume to limit solvent concentration in experiments.
Storage	Store desiccated at -20°C for up to 1 year in solid form. Dissolve in DMSO immediately before use in experiments.
Notes	The product was purified in acetonitrile and water containing 0.1% trifluoroacetic acid (TFA) prior to lyophilisation. The product will therefore be present as its trifluoroacetic acid salt. *Peptide is supplied by net peptide weight. Whilst the purity of the material has been shown to be 97%, the net peptide content (NPC) is lower due to counterions and residual water molecules present in the material after purification. To compensate for this, the amount of peptide weighed out is adjusted so that the weight of active material received is exactly as stated on the vial. This means that the total mass supplied will be in excess of 200µg, but there will be exactly 200µg of the active peptide component in the vial.
The DPc10 peptide range	1. DPc10 Peptide (Cat. A010-514) 2. DPc10 Inactive Peptide (Cat. A010-515) 3. Fluorescein DPc10 Peptide (Cat. A010-516) 4. Fluorescein DPc10 Inactive Peptide (Cat. A010-517)

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