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DATA SHEET

Product Name:	Fluorescein-r Beta-Amyloid (1-42)
Catalog #:	A-1119r
Source:	Recombinant. A DNA sequence encoding the human beta-amyloid (1-42) sequence was expressed in E. coli and had FITC molecules attached for fluorescence
Molecular Mass:	Approximately 4,514 Da to 5,293 Da
Protein Purity:	>95% by Mass Spec.
Counter Ion:	20mM Tris-HCl pH 8.5
Supplied As:	Lyophilized powder
Resuspension:	Resuspend in 1% NH4OH at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.
Storage:	–20^{0}C
Description:	Human beta-amyloid (1-42) has been covalently labeled with Fluorescein Isothiocyante and assayed for fluorescence. The FITC label has a maximum absorbance at 495 and a maximum emission at 525nm. This FITC labeled form of recombinant beta-amyloid (1-42) is ideally suited to localization experiments, aggregation monitoring, and binding kinetics without the need for mutations or further labeling. This product may be applicable to in vitro or in vivo studies monitoring aggregation, binding, or cellular uptake and trafficking[1]. The addition of the FITC allows for monitoring through microscopy of fluorescence spectroscopy[2] with both live cells and lipid models. Oligomer formation, fibril formation, or other structural assembly could also be attempted[3].
References:	1. Jin, S., et al., (2016) Journal of Biological Chemistry. 291 : 19590-19606 2. Jamasbi, E., et al., (2018) Biochimica et Biophysica Acta (BBA) 1860(9) : 1609-1615 3. Jungbauer, L.M., et al., (2009) J Mol Recognit. *22(5)* : 403-413
Additional Notes:	The LC-MS analysis shows the beta-amyloid (1-42) peptide conjugated with FITC largely to a single site, with the potential for a small population of unlabeled (1-42) as well as a secondary or tertiary conjugation site also present.

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www.rpeptide.com
1050 Barber Creek • Bldg: 300 • Suite: 103 • Watkinsville • Georgia • 30677 • USA
Tel 678-753-0747 • Fax 678-753-0746 • E-mail sales@rpeptide.com