



Product Data Sheet

Product Name:	β-Amyloid (1-42), HiLexa Fluor™ 488-labeled	
Catalog Number:	AS-65627	Lot Number: See label on vial
Size	0.1 mg	
Sequence (one-letter code)	HiLexa Fluor™ 488-DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA	
Sequence (three-letter code)	HiLexa Fluor™ 488-labeled-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-TyrGlu-Val-His-His-Gln-Lys - Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-SerAsn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH	
Molecular Weight:	5030.8 Da	
% Peak Area by HPLC	≥90%	
Appearance	Lyophilized orange-pink color powder	
Storage:	This peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.	
Peptide Reconstitution:	Reconstitute by adding 50 µl 1%NH4OH to 0.1 mg β-Amyloid (1-42), HiLexa Fluor™ 488-labeled peptide. Dilute this peptide solution to approximately 1 mg/ml (or more dilute) with a buffer such as PBS or another buffer; aliquot and store at -20°C.	
Description:	<p>This is a fluorescent (HiLexa™ Fluor 488) labeled β-Amyloid peptide, Abs/Em=503/528 nm. HiLexa 488™ Fluor labeled Aβ (1-42) offers brighter intensity with high fluorescence quantum yield and photostability suitable for pH-insensitive applications including flow cytometry and imaging. HiLexa™ Fluor 488 is the same structure as that of Alexa® Fluor 488.</p> <p>Aβ (1-42), a major component of amyloid plaques and accumulates in neurons of Alzheimer's disease (AD) brains.</p> <p>HiLexa™ Fluor 488 labeled β-Amyloid peptide can be used in studies applicable for monitoring aggregation kinetics of Aβ via steady-state fluorescence, measuring amyloid aggregates in cellular compartments in live neurons via confocal microscopy, quantification of Aβ(1-42) by flow cytometry upon cellular uptake, monitoring Aβ fibrillogenesis via fluorescence correlation spectroscopy, assaying Aβ degradation, evaluating role of autophagy in cell lines via immunoblotting, in vitro phagocytosis assay to determine uptake efficacy by macrophages, and a host of other applications including immunocytochemistry, RT-PCR etc.</p>	

References:

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