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## Product Datasheet

### Alexa Fluor(TM) 488-Labeled Human Alpha-Synuclein Pre-formed Fibrils Protein, Tag Free, AF488, E. coli ABS-ALN-HA114-200UG

|                            |                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | Alexa Fluor(TM) 488-Labeled Human Alpha-Synuclein Pre-formed Fibrils Protein, Tag Free, AF488, E. coli                                                                                                                                                        |
| Biozol Catalog Number      | ABS-ALN-HA114-200UG                                                                                                                                                                                                                                           |
| Supplier Catalog Number    | ALN-HA114-200ug                                                                                                                                                                                                                                               |
| Alternative Catalog Number | ABS-ALN-HA114-200UG                                                                                                                                                                                                                                           |
| Manufacturer               | AcroBiosystems                                                                                                                                                                                                                                                |
| Host                       | E. coli                                                                                                                                                                                                                                                       |
| Category                   | Proteine/Peptide                                                                                                                                                                                                                                              |
| Species Reactivity         | Human                                                                                                                                                                                                                                                         |
| Conjugation                | AF488                                                                                                                                                                                                                                                         |
| Product Description        | Alphasynuclein is a neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. It acts also as a molecular chaperone in its multimeric membranebound state... |
| Molecular Weight           | 14.5 kDa                                                                                                                                                                                                                                                      |
| Tag                        | Native                                                                                                                                                                                                                                                        |
| NCBI                       | <a href="#">37840</a>                                                                                                                                                                                                                                         |
| Buffer                     | PBS, pH7.4                                                                                                                                                                                                                                                    |
| Purity                     | 90%                                                                                                                                                                                                                                                           |

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| Form              | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Target            | Alpha-Synuclein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Application Notes | <p>1. Sonication Conditions, Dissolution, Aliquoting, Storage, and Notes for PFF Thawing: Thaw PFFs rapidly in a 37 C water bath, or allow to thaw at room temperature. Aliquoting: Since PFFs are supplied as a suspension, pipette up and down thoroughly before aliquoting to ensure homogeneity. Storage: Store at -80 C at all times, avoid storage at 4 C or -20 C, which can induce fibril depolymerization. * alpha-Syn fibrils cold-denatured to monomers at 0-20 C and heat-denatured at 60-110 C. Sonication: The sonication protocols below are based on cell-based assay conditions. -Option 1 (Probe Sonicator): Use a probe sonicator (SCIENTZ) at 10% power (-95 W), applying 60 pulses of 0.5 s on/0.5 s off (recommended). -Option 2 (Ultrasonic Bath): Sonicate in an ultrasonic cleaner (40 kHz, 200-400 W) at 37 C for 1 hour, avoid performing the treatment at 4 C or 20 C. Note: The above sonication protocols are based on cell-based assays, other applications (e.g., in vivo injections) may require optimization-users should determine their optimal settings for their specific use case. 2. Recommendations for PFF Use in Animal Models Minimize Freeze-Thaw Cycles: For animal studies, it is recommend to use the PFF at once or aliquot before use to avoid repeated freeze-thaw cycles. PFF Maintenance During Injections: During stereotaxic injections, keep the sonicated PFFs in a 37 C water bath to prevent re-aggregation or sedimentation.</p> |