

pJEK5 Alpha-Synuclein A53T Vector

Catalogue number: 152048

Sub-type:

Images:

Contributor

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Institute: Lancaster University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: pJEK5 Alpha-Synuclein A53T Vector

Alternate name:

Class:

Conjugate:

Description: pJEK5 ("A53T") is a derivative of pET15b with the open reading frame encoding the A53T mutant human α -synuclein cloned in via the NdeI and BamHI restriction sites. It was constructed via site-specific mutagenesis of pJEK1, replacing the G at position 88 in the ORF nucleotide sequence with a C, thus altering the 30th codon from GCA encoding Ala, to CCA encoding Pro. In this construct A30P alpha-synuclein is expressed as a fusion protein with an N-terminal six His tag.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Alpha synuclein is expressed predominantly in the brain, where it is concentrated in presynaptic nerve terminals. The deposition of the abundant presynaptic brain protein alpha-synuclein as fibrillary aggregates in neurons or glial cells is a hallmark lesion in a subset of neurodegenerative disorders. These disorders include Parkinson's disease (PD), dementia with Lewy bodies (DLB) and multiple system atrophy, collectively referred to as synucleinopathies. Parkinson's disease (PD) is a common neurodegenerative disorder characterized by the progressive accumulation in selected neurons of protein inclusions containing alpha-synuclein and ubiquitin. A point mutation in the α -synuclein gene, A53T (Ala53-Thr), is linked to familial Parkinson's disease. Mice expressing A53T human α -synuclein, but not wild-type or the A30P variants, develop adult-onset neurodegenerative disease with a progressive motoric dysfunction leading to death

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: pJEK5 ("A53T") is a derivative of pET15b with the open reading frame encoding the A53T mutant human α -synuclein cloned in via the NdeI and BamHI restriction sites. It was constructed via site-specific mutagenesis of pJEK1, replacing the G at position 88 in the ORF nucleotide sequence with a C, thus altering the 30th codon from GCA encoding Ala, to CCA encoding Pro. In this construct A30P alpha-synuclein is expressed as a fusion protein with an N-terminal six His tag.

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions:

Related tools

Related tools:

References

References:

CancerTools.org