

AAV.hSynapsin.iGluSnFR vector

Catalogue number: 154063

Sub-type: pAAV

Images:

Contributor

Inventor:

Institute: Howard Hughes Medical Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: AAV.hSynapsin.iGluSnFR vector

Alternate name:

Class:

Conjugate:

Description: This plasmid has an intensity-based glutamate-sensing fluorescent reporter (iGluSnFR) to be used to visualize the fluorescence change during glutamate release by neurons and astrocytes during *in vivo* imaging. This glutamate sensor is constructed from E. coli Glutamate dehydrogenase (GluDH) and cpGFP. This adeno-associated virus under the human synapsin-1 promoter drives expression of iGluSnFR in neurons.

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: This plasmid has an intensity-based glutamate-sensing fluorescent reporter (iGluSnFR) to be used to visualize the fluorescence change during glutamate release by neurons and astrocytes during *in vivo* imaging. This glutamate sensor is constructed from E. coli GltI and cpGFP. This adeno-associated virus under the human synapsin-1 promoter drives expression of iGluSnFR in neurons.

Target details

Target: SF-iGluSnFR.A184S

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions:

Related tools

Related tools:

References

References: Sensitive red protein calcium indicators for imaging neural activity. ; Dana et al. 2016. Elife. 5:. PMID: 27011354.

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