

GST-tagged human cannabinoid CB1 receptor (ammino acids 414 to 472)

Catalogue number: 161588

Sub-type: GST fusion protein

Images:

Contributor

Inventor: Gontzal García del Caño

Institute: University of the Basque Country

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: GST-tagged human cannabinoid CB1 receptor (ammino acids 414 to 472)

Alternate name:

Class:

Conjugate:

Description: Polypeptide spanning amino acids 414 to 472 (CB1414–472) of the cytosolic tail of the human cannabinoid CB1 receptor fused to the C-terminus of the glutathione S-transferase (GST) tag. The linker between the GST tag and the CB1414–472 polypeptide posses the consensus cleavage site LeuPheGlnGlyPro for the PreScission protease for removing the GST tag after purification.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence: Saumell-Esnaola M et al. 2022. Microb Cell Fact. 21(1):192. PMID: 36109736.

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Contact the inventor for further information.

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 32828.56 Da

Ic50:

Applications

Application: Protein standard for quantitative Western blot to determine CB1 receptor density in biological samples using antibodies raised against peptides that within the sequence spanning amino acids 414-472 at the C-terminus of the CB1 receptor. Protein-protein interaction assays (e.g., GST pull-down surface plasmon resonance) involving proteins interacting with the CB1 receptor at the sequence spanning amino acids 414-472 at the C-terminus of the CB1 receptor.

Application notes: Protein standard for quantitative Western blot to determine CB1 receptor density in biological samples using antibodies raised against peptides that within the sequence spanning amino acids 414-472 at the C-terminus of the CB1 receptor. Protein-protein interaction assays (e.g., GST pull-down surface plasmon resonance) involving proteins interacting with the CB1 receptor at the sequence spanning amino acids 414-472 at the C-terminus of the CB1 receptor.

Handling

Format: Solution

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: 125 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 1 mM EDTA, pH 7.4 Contains 50 mM reduced glutathione which may need to be removed (e.g. by dialysis) for certain assays.

Storage conditions: -80° C

Shipping conditions: Frozen in dry ice

Related tools

Related tools:

References

References: Bagshaw et al. Mitochondrial Intoxication. 2023, 723-744; Gassl et al. Cancers (Basel) 2022 Nov 16,14(22):5617. PMID: 36428711; Wang et al. Biomolecules 2022 Oct 27,12(11):1575. PMID: 36358924; Villar et al. 2022. Nat Chem Biol. PMID: 36280791; Gardner et al. 2022. Am J Physiol Cell Physiol 323(3):C823-C834. PMID: 35876286; Golikov et al. 2022. Mol Biol (Mosk) 56(5):687-696. PMID: 36165010; Taurino et al. 2022. Mol Metab. 101532 PMID: 35752287 ; Wang et al. 2022. Biomolecules. 12(6):743. PMID: 35740868 ; Bagshaw et al. 2021. Biomaterials and Biosystems.4 (100027): 2666-5344 ; Golikov et al. 2022. Antioxidants 2022, 11, 97. ; Golikov et al. Antioxidants 2022, 11(1), 97 ; Kalimuthu et al. 2021. J Cell Biochem. .: PMID: 34935169. ; Hennequart et al. 2021. Nature Communications. 12: 6176. ; Chiu et al. 2021. American Society of Hematology. Blood Advances. ; Cox et al. 2020. Journal of Data and Information Science. 5(3): 161-177 ; Moradi et al. 2021. Biomolecules. 11(8): 1177 ; Plasmax Application Note ; Barekatin et al. 2021. Nature. 12: 4228. ; Moradi et al. 2021. American Journal of Physiology. Cell Physiology. 321 (1): C72-C81. ; Khadka et al. 2021. Cancer & Metabolism. 9:27 ; Abbas et al. 2021. Comp Biochem Physiol B Biochem Mol Biol. 254:110570. PMID: 33516822. ; PlasmaxTM: Product Brochure ; Ackermann et al. 2019. Trends Cancer. 5(6):329-332. PMID: 31208694. ; Cell culture shock “a scientist’s hunt for the perfect cocktail ; Vande Voorde et al. 2019. Sci Adv. 5(1):eaau7314. PMID: 30613774.