ADAR1, FLAG-Tag Recombinant

Catalog: 100472
Lot: 231010-1

Product Information

Description: Recombinant human ADAR1 (adenosine deaminase, RNA-specific 1), full length encompassing amino acids 2-1226(end). This construct contains an N-terminal FLAG-tag. The recombinant protein was affinity purified.

Background: ADAR1 (adenosine deaminase, RNA-specific 1) performs adenosine to inosine base editing in RNA, particularly targeting adenosines located within a specific stem-loop motif structure. It is proposed that ADARs evolved to provide additional diversity to the transcriptome and while the majority of ADAR editing events occur in non-coding RNAs, some, including the canonical GluA2 editing site, alter the amino acid sequence of coding proteins. ADAR1 plays a role in innate immunity by mitigating interferon signaling. Dysfunction of ADAR1 results in autoimmune disorders, and impacts cancer cell growth and proliferation as well as tumor response to immunotherapy. Since ADAR recognizes double-stranded RNA, it also functions to suppress or modify RNA viruses. Thus, it is implicated in viral evolution and in the emergence of viral variants such as SARS-CoV-2 variants.

Species: Human

Construct: ADAR1 (FLAG-2-1226(end))

Concentration: 0.77 mg/ml

Expression System: HEK293

Purity: 81%

Format: Aqueous buffer solution.

Formulated In: 50 mM Tris, pH 8.0, 750 mM NaCl, 0.01% Triton X-100, and 10% Glycerol

MW: 137 kDa

Genbank Accession: NM_001111

Stability: At least 6 months at -80°C.

Storage: -80°C

Instructions for Use: Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.

Applications: Useful as control in SDS-PAGE.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining