

Active Recombinant Full Length Human ADAR Protein, Flag tagged

Cat. No. ADAR-12HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADAR1 (adenosine deaminase, RNA-specific 1) transcript 1, full length encompassing amino acids 2-1226 (end). This construct contains an N-terminal FLAG-tag. The recombinant protein was affinity purified.
Species	Human
Source	HEK293
ProteinLength	2-1226 aa
Description	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.
Form	Aqueous buffer solution

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Molecular Mass	137 kDa
Purity	≥70%
Storage	At least 6 months at –80 centigrade.
Storage Buffer	50 mM Tris-HCl, pH 8.0, 750 mM NaCl, 0.01% Triton X-100, 10% glycerol and variable FLAG peptide.
Concentration	0.77 mg/mL
Shipping	At -80 centigrade.

GENE INFORMATION

Gene Name	ADAR adenosine deaminase, RNA-specific [Homo sapiens (human)]
Official Symbol	ADAR
Synonyms	ADAR; adenosine deaminase, RNA-specific; G1P1, IFI4, interferon induced protein 4; double-stranded RNA-specific adenosine deaminase; ADAR1; dsRNA adenosine deaminase; interferon-induced protein 4; interferon-inducible protein 4; adenosine deaminase acting on RNA 1-A; 136 kDa double-stranded RNA-binding protein; DSH; G1P1; IFI4; P136; DRADA; DSRAD; IFI-4; K88DSRBP;
Gene ID	103
mRNA Refseq	NM_001111
Protein Refseq	NP_001102

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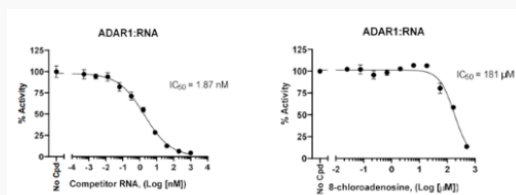
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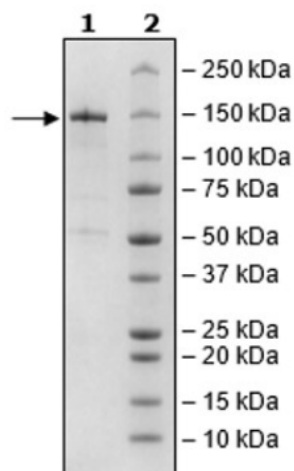
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UniProt ID P55265

Activity



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