Recombinant Human ADORA1, GST-tagged

Cat. No. ADORA1-9433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADORA1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	184-243a.a.
Description	The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and ethanol intoxication. Transcript variants with alternative splicing in the 5 UTR have been found for this gene.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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Gene Name	ADORA1 adenosine A1 receptor [Homo sapiens]
Official Symbol	ADORA1
Synonyms	ADORA1; adenosine A1 receptor; adenosine receptor A1; RDC7;
Gene ID	134
mRNA Refseq	NM_000674
Protein Refseq	NP_000665
MIM	102775
UniProt ID	P30542
Chromosome Location	1q32.1
Pathway	Adenosine P1 receptors, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem; Morphine addiction, organism-specific biosystem;
Function	G-protein beta/gamma-subunit complex binding; G-protein coupled adenosine receptor activity; G-protein coupled receptor binding; heterotrimeric G-protein binding; phospholipase C activity; protein binding; protein heterodimerization activity; purine nucle

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