

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°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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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