

## ADRB1 Protein, Mouse (Cell-Free, His, SUMO)

<b>Cat. No.:</b>	HY-P702205
<b>Synonyms:</b>	Beta-1 adrenergic receptor; Beta-1 adrenoreceptor; Beta-1 adrenoceptor
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	P34971 (M1-V466)
<b>Gene ID:</b>	11554
<b>Molecular Weight:</b>	63.4 kDa

### PROPERTIES

#### AA Sequence

MGAGALALGA	SEPCNLSSAA	PLPDGAATAA	RLLVLASPPA
SLLPPASEGS	APLSQQWTAG	MGLLLALIVL	LIVVGNVLVI
VAI AKTPRLQ	TLTNLFIMSL	ASADLVMGLL	VVPFGATIVV
WGRWEYGSFF	CELWTSVDVL	CVTAS IETLC	VIALDRYLA I
TSPFRYQSLL	TRARARALVC	TVWAI SALVS	FLPILMHWWR
AESDEARRCY	NDPKCCDFVT	NRAYA IASSV	VSFYVPLCIM
AFVYL RVFRE	AQKQVKKIDS	CERRFLGGPA	RPPSPEPSPS
PGPPRPADSL	ANGRSSKRRP	SRLVALREQK	ALKT LGI IMG
VFTLCWLPFF	LANVVKA FHR	DLVPDRL FVF	FNWLG YANSA
FNPII YCRSP	DFRKA FQRL L	CCARRAACRR	RAAHGDRPRA
SGCLARAGPP	PSPGAPSDDD	DDDAGTTPPA	RLL EPWTGCN
GGTTTVDSDS	SLDEPGRQGF	SSESKV	

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

#### Endotoxin Level

<1 EU/ $\mu$ g, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The ADRB1 Protein, a member of the beta-adrenergic receptor family, plays a crucial role in mediating catecholamine-induced activation of adenylate cyclase through G protein action. Notably, this receptor exhibits approximately equal affinity for both epinephrine and norepinephrine, highlighting its responsiveness to both endogenous catecholamines. ADRB1 is implicated in Ras activation through G(s)-alpha- and cAMP-mediated signaling. Additionally, its involvement in the regulation of sleep/wake behaviors underscores its broader physiological significance. The protein interacts directly with RAPGEF2 via its C-terminus PDZ motif and shows associations with GOPC, MAGI3, and DLG4, further contributing to the intricate regulation of ADRB1 signaling and its potential role in diverse cellular processes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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