Recombinant Full Length Human PDE7A Protein, His tagged

Cat. No. PDE7A-22HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PDE7A full-length ORF (NP_002594.1, 1 a.a. - 456 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ (in vitro).
Species	Human
Source	Wheat germ cell free in vitro
ProteinLength	1-456 aa
Description	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE7 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
AASequence	MGITLIWCLALVLIKWITSKRRGAISYDSSDQTALYIRMLGDVRVRSRAGFESERRGS HPYIDFRIFHSQSEIEVSVSARNIRRLLSFQRYLRSSRFFRGTAVSNSLNILDDDYNG QAKCMLEKVGNWNFDIFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHLDMMKLRRFLV MIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLANSVTPWDILLSLIAAATHDLDH PGVNQPFLIKTNHYLATLYKNTSVLENHHWRSAVGLLRESGLFSHLPLESRQQMET QIGALILATDISRQNEYLSLFRSHLDRGDLCLEDTRHRHLVLQMALKCADICNPCRTW ELSKQWSEKVTEEFFHQGDIEKKYHLGVSPLCDRHTESIANIQIGFMTYLVEPLFTEW

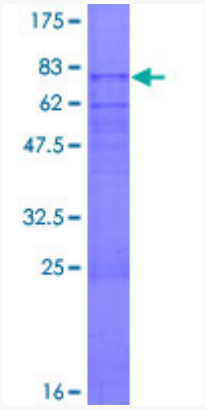
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	ARFSNTRLSQTMLGHVGLNKASWKGLQREQSSSEDTDAAFELNSQLLPQENRLS
Molecular Mass	79.1 kDa
Application	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Note	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	PDE7A phosphodiesterase 7A [Homo sapiens (human)]
Official Symbol	PDE7A
Synonyms	PDE7A; phosphodiesterase 7A; HCP1; PDE7; high affinity 3',5'-cyclic-AMP phosphodiesterase 7A; TM22; cAMP-specific phosphodiesterase 7A; high affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A; high affinity cAMP-specific PDE 1; phosphodiesterase isozyme 7; EC 3.1.4.53
Gene ID	5150
mRNA Refseq	NM_002603
Protein Refseq	NP_002594
MIM	171885

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UniProt ID	Q96T72
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