

# Recombinant Full Length Human PDE7A Protein, His tagged

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

## SPECIFICATION

<b>Product Overview</b>	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).
<b>Species</b>	Human
<b>Source</b>	Wheat germ cell free in vitro
<b>ProteinLength</b>	1-456 aa
<b>Description</b>	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.
<b>AASequence</b>	<p>MGITLIWCLALVLIKWITSKRRGAISYDSSDQTALYIRMLGDVRVRSRAGFESERRGS            HPYIDFRIFHSQSEIEVSVSARNIRLLSFQRYLRSSRFFRGTAVSNSLNILDDDDYNG            QAKCMLEKVGWVNFDFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHLDMMLRRFLV            MIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLANSVTPWDILLSLIAAATHDLDH            PGMVNPFLIKTNHYLATLYKNTSVLENHHWRSVAVGLLRESGLFSLPLESRQQMET            QIGALILATDISRQNEYLSLFRSHLDRGDLCLCLEDTRHRHLVLQMALKCADICNPCRTW            ELSKQWSEKVTEEFFHQGDIEKKYHLGVSPLCDRHTESIANIQIGFMTYLVEPLFTEW</p>

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ARFSNTRLRSQTMLGHVGLNKASWKGLQREQSSSEDTDAAFELNSQLLPQENRLS

**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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