# abcam

### Product datasheet

## Recombinant rat PDE7B protein ab198460

2 Images

Description		
Product name	Recombinant rat PDE7B protein	
Biological activity	Specific Activity: ≥324 pmol/min/µg. Unit Definition: One unit is defined as the amount of enzyme that will convert 1 pmole of 3', 5'- cAMP to 5'-AMP per minute at 37°C. Assay conditions: 10 mM Tris-HCI, pH 7.4, 10 mM MgCl <sub>2</sub> , 0.05% Tween-20, 0.1 mg/ml BSA, 200	
	-	and serial dilutions of ab198460 at 37°C for 20 min. Quantified AMP product and releasing the phosphate group which is gent.
Purity	30 % SDS-PAGE. Affinity purified.	
Expression system	Baculovirus infected Sf9 cells	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Rat	
Sequence		MLSKVGMWDFDIFLFDRLTNGNSLVTLLCHLFNSHGLIHHF KLDMVTLHR FLVMVQEDYHGHNPYHNAVHAADVTQAMHCYLKEPKLAS FLTPLDIMLGL
		LAAAAHDVDHPGVNQPFLIKTNHHLANLYQNMSVLENHH WRSTIGMLRES
		RLLAHLPKEMTQDIEQQLGSLILATDINRQNEFLTRLKAHLH NKDLRLEN
		IQDRHFMLQIALKCADICNPCRIWEMSKQWSERVCEEFYR QGDLEQKFEL
		EISPLCNQQKDSIPSIQIGFMTYIVEPLFREWARFTGNSTLS ESMLNHLA
		HNKAQWKSLLSNQHRRRGSGQDPAGTAPETLEQTEGAT P
Predicted molecular weight	65 kDa including tags	
Amino acids	108 to 446	
Tags	GST tag N-Terminus	

#### Specifications

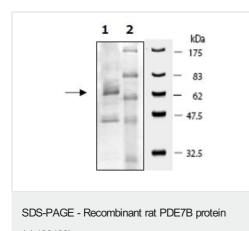
Our Abpromise quarantee covers the use o	f <b>ab198460</b> in the following tested applications.
Our Approfilise quarantee covers the use of	

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Functional Studies
Form	Liquid
Additional notes	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Preparation and Storage	
Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 8.00
	Constituents: 0.71% Tris HCI, 0.72% Sodium chloride, 0.02% Potassium chloride, 0.55%
	Glutathione, 10% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

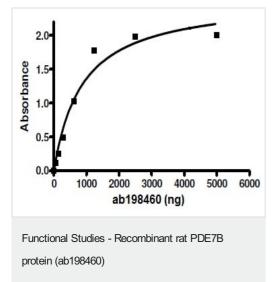
General Info	
Relevance	PDE7B is a cAMP specific phosphodiesterase. The cAMP-specific phosphodiesterase type-7
	(PDE7) family is comprised of 2 genes (PDE7A and PDE7B) each with multiple splice variants
	generated by RNA splicing and use of alternate initiation sites. PDE7B has three splice variants
	(PDE7B1 = 446 amino acid; PDE7B2 =359 amino acids and PDE7B3 = 459 amino acids. Both
	PDE7B2 ad PDE7B3 posses unique N-terminal sequences. PDE7B is expressed in various
	tissues including skeletal muscle, heart, lung and testis. PDE7B may be involved in the control of
	cAMP-mediated neural activity and cAMP metabolism in the brain.
Cellular localization	cytosol

#### Images



10% SDS-PAGE analysis of ab198460 with Coomassie staining.

Lane 1: 4 µg ab198460 Lane 2: Protein marker



Specific activity of ab198460.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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