

PDE10A recombinant protein

PDE10A, Active

CATALOG # AAA73108	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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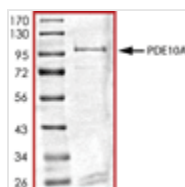
PRODUCT SYNONYMS

PDE10A; Active; PDE10A recombinant protein

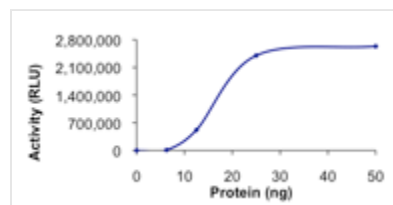
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	71-end
Sequence Length	8323
Applicable Applications for PDE10A recombinant protein	PDE Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PDE10A recombinant protein	Description: Recombinant human PDE10A (71-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PDE10A is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP (1). PDE10A eliminates cAMP- and cGMP-mediated intracellular signaling by hydrolyzing the cyclic nucleotide to the corresponding nucleoside 5-prime monophosphate. PDE10A hydrolyzes cAMP and cGMP in transfected COS-7 cells (2). PDE10A has a 11-fold higher affinity for cGMP than cAMP and cAMP can efficiently inhibit cGMP phosphodiesterase activity of PDE10A. PDE10A is being used as a biomarker in clinical trials of gene-disease association and gene-environment interaction.
Product Categories/Family for PDE10A recombinant protein	Enzymes; Active Phosphodiesterases

References

1. Fujishige, K. et.al: Cloning and characterization of a novel human phosphodiesterase that hydrolyzes both cAMP and cGMP (PDE10A). J. Biol. Chem. 274: 18438-18445, 1999. 2. Loughney, K et.al: Isolation and characterization of PDE10A, a novel human 3-prime, 5-prime-cyclic nucleotide phosphodiesterase. Gene 234: 109-117, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	802084022
NCBI GeneID	10846
NCBI Accession #	NM_006661.3
NCBI GenBank Nucleotide #	NM_006661
UniProt Accession #	Q9Y233; Q6FHX1; Q9HCP9; Q9NTV4; Q9ULW9; Q9Y5T1
Molecular Weight	~102 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 10A (PDE10A), transcript variant 2, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 10A
NCBI Official Symbol	PDE10A
NCBI Official Synonym Symbols	ADSD2; IOLOD; HSPDE10A; PDE10A19; LINC00473
NCBI Protein Information	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
UniProt Protein Name	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
UniProt Gene Name	PDE10A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pde10a-recombinant-protein-sf9-pde-assay/73108>