

Active Recombinant Human PDE10A, GST-tagged

Cat. No. PDE10A-1610H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PDE10A (71-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	71-end
Description	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase family. It plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This protein can hydrolyze both cAMP and cGMP to the corresponding nucleoside 5' monophosphate, but has higher affinity for cAMP, and is more efficient with cAMP as substrate. Alternatively spliced transcript variants have been described for this gene.?
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	92 nmol/min/mg
Molecular Mass	~102 kDa
Purity	>80%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	PDE Assay
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at -70oC. 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.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	PDE10A phosphodiesterase 10A [Homo sapiens]
Official Symbol	PDE10A
Synonyms	PDE10A; phosphodiesterase 10A; FLJ11894; FLJ25677; HSPDE10A; OTTHUMP00000017586; phosphodiesterase 10A1 (PDE10A1); dJ416F21.1 (phosphodiesterase 10A); EC 3.1.4.17; EC 3.1.4.35
Gene ID	10846
mRNA Refseq	NM_001130690
Protein Refseq	NP_001124162
MIM	610652
UniProt ID	Q9Y233
Chromosome Location	6q26

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Pathway

G alpha (s) signalling events; Purine metabolism; Signaling by GPCR

Function

3",5"-cyclic-GMP phosphodiesterase activity; cGMP-stimulated cyclic-nucleotide phosphodiesterase activity

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