

Datasheet for ABIN7564527

PDE10A Protein (AA 1-790) (His tag)



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Overview

Quantity:	1 mg
Target:	PDE10A
Protein Characteristics:	AA 1-790
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE10A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pde10a Protein expressed in mammalian cells.
Sequence:	<p>MSNDSTEGTV GSCNATGLTD EKVKAYLSLH PQVLDEFVSE SVSAETVEKW LKRKTNKAKD</p> <p>EPSPKEVSRY QDTNMQGVVY ELNSYIEQRL DTGGDNHLLL YELSSIIRIA TKADGFALYF</p> <p>LGECNNSLCV FIPPGMKEGQ PRLIPAGPIT QGTTISAYVA KSRKTLLVED ILGDERFPRG</p> <p>TGLESGETRIQ SVLCLPIVTA IGDILIGILEL YRHWGKEAFC LSHQEVATAN LAWASVAIHQ</p> <p>VQVCRGLAKQ TELNDFLLDV SKTYFDNIVA IDSLEHIMI YAKNLVNADR CALFQVDHKN</p> <p>KELYSDFDI GEEKEGKPIF KKTKEIRFSI EKGIAQQVAR TGEVLNIPDA YADPRFNREV</p> <p>DLYTGYTTRN ILCMPIVSRG SVIGVVQMVN KISGSAFSKT DENNFKMFAV FCALALHCAN</p> <p>MYHRIRHSEC IYRVTMKLS YHSICTSEEW QGLMRFNLP RCRDIELFH FDIGPFENMW</p> <p>PGIFVYMIHR SCGTSCFELE KLCRFIMSVK KNYRRVPYHN WKHAVTVAHC MYAILQNNNG</p> <p>LFTDLERKGL LIACLCHDL DHRGFSNSYLQ KFDHPLAALY STSTMEQHFF SQTVSILQLE</p> <p>GHNIFSTLSS SEYEQVLEII RKAIATDLA LYFGNRKQLE EMYQTGSLNL HNQSHRDRVI</p>

Product Details

GLMMTACDLC SVTKLWPVTK LTANDIYAEF WAEGDEMKKL GIQIPMMDR DKRDEVPPQQ
LGFYNAVAIP CYTTLTQILP PTEPLLKACR DNLNQWEKVI RGEETAMWIS GPGPAPSKST
PEKLNVKVED **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	PDE10A
Alternative Name:	Pde10a (PDE10A Products)
Background:	<p>CAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A (EC 3.1.4.17),FUNCTION: Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides (PubMed:10359840). Can hydrolyze both cAMP and cGMP, but has higher affinity for cAMP and is more efficient with cAMP as substrate (PubMed:10359840). May play a critical role in regulating cAMP and cGMP levels in the striatum, a region of the brain that contributes to the control of movement and cognition (PubMed:10359840, PubMed:14751289, PubMed:27058446). {ECO:0000269 PubMed:10359840, ECO:0000269 PubMed:14751289, ECO:0000269 PubMed:27058446}.</p>

Target Details

Molecular Weight:	89.4 kDa
UniProt:	Q8CA95
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months