

Recombinant Human PDE3B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDE3B-6370H Lot. No. (See product label)

SPECIFICATION

Product Overview	PDE3B MS Standard C13 and N15-labeled recombinant protein (NP_000913) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. May play a role in fat metabolism. Regulates cAMP binding of RAPGEF3. Through simultaneous binding to RAPGEF3 and PIK3R6 assembles a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 and which is involved in angiogenesis.
Molecular Mass	124.2 kDa
AA Sequence	MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFHLCRFC NVELRPPASPQQPRRCSPFCRARLSLGALAAFVLALLLGAEPESWAAGAAWLRTL LSVCSHLSPLFSIACAFFFLTCLFTRTRKRGPGPGRSCGSWWLLALPACCYLGDFLV WQWWSWPWGDGDAGSAAPHTPPEAAAGRLLLVLSCVGLLLTLAHPLRLRHCVLVL LLASFVWWWVSFTSLGSLPSALRPLL SGLVGGAGCLLALGLDHFFQIREAPLHPRLSS AAEEKVPVIRPRRRSSCVSLGETAASYYGCKIFRRPSLPCISREQMILWDWDLKQW YKPHYQNSGGGNGVDLSVLNEARNMVSDLLTDPSLPPQVISSLRSISSLMGAFSGS

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CRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTPQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNPFNSNLLTIPKQRSSSVSLTHHVGLRR
AGVLSSLSPVNSSNHGPVSTGSLTNRSPIEF PDTADFLNKPSVILQRSLGNAPNTPD
FYQQLRNSDSNLCNSCGHQMLKYVSTSESDGTDCCSGKSGEEENIFSKESEFKLMET
QQEEETEKKDSRKLFQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMSN
WNFPIFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDI
PYHNRIHATDVLHAVWYLTTRPVPLQQIHNGCGTGNETDSDGRINHGRIAYISSKS
CSNPDESYGCLSSNIPALELMALYVAAAMHDYDHPGRTNAFLVATNAPQAVLYNDR
SVLENHHAASAWNLYLSRPEYNFLLHLDHVEFKRFRFLVIEAILATDLKKHFDFLAEF
NAKANDVNSNGIEWSNENDRLLVCQVCIKLADINGPAKVRDLHLKWTEGIVNEFYEQ
GDEEANLGLPISPFMDRSPQLAKLQESFITHIVGPLCNSYDAAGLLPGQWLEAEED
NDTESGDDDEDGEELDTEDDEMENNLPKPPRRKSRRRIFCQLMHHLTENHKEI
VEEEEKCKADGNKLQVENSSLPQADEIQVIEEADEEETRTRPLEQKLISEEDLAANDI
LDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

PDE3B phosphodiesterase 3B [Homo sapiens (human)]

Official Symbol

PDE3B

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Synonyms	PDE3B; phosphodiesterase 3B, cGMP-inhibited; cGMP-inhibited 3,5-cyclic phosphodiesterase B; HcGIP1; CGIP1; CGI-PDE B; cyclic nucleotide phosphodiesterase; cyclic GMP-inhibited phosphodiesterase B; cGIPDE1;
Gene ID	5140
mRNA Refseq	NM_000922
Protein Refseq	NP_000913
MIM	602047
UniProt ID	Q13370
SDS-PAGE	