

Recombinant Mouse Pebp1 protein, His-tagged

Cat. No. Pebp1-55M **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant mouse Pebp1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Species | Mouse |
| Source | E.coli |
| Description | Pebp1 also known as Phosphatidylethanolamine-binding protein 1. The protein Binds with ATP, opioids and phosphatidylethanolamine. Pebp1 exerts inhibitory activity against several serine proteases including thrombin, neuropsin, and chymotrypsin, it also inhibits the kinase activity of RAF1 by inhibiting its activation and by dissociating the RAF1/MEK complex and acting as a competitive inhibitor of MEK phosphorylation. Also, targeting Pebp1 levels can delay photoreceptor degeneration, assisting in extending the time-window for treating such rapidly progressing blindness disorder. |
| Form | Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol |
| Molecular Mass | 23.2kDa (210aa) confirmed by MALDI-TOF |
| AA Sequence | MGSSHHHHHH SSGLVPRGSH MGSMADISQ WAGPLCLQEV DEPPQHALRV DYAGVTVDEL GKVLTPQVM NRPSSISWDG LDPGKLYTLVLTDPDAPSRK DPKFREWHHF LVVNMKGNDI SSGTVLSDYV GSGPPSGTGL HRYVWLVYEQ EQPLSCDEPI LSNKSGDNRG KFKVETFRKKNLGLAPVAGT CYQAEWDDYV PKLYEQLSGK |

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|-------------------------|---|
| Purity | >95% by SDS - PAGE |
| Storage | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| Concentration | 1mg/ml (determined by Absorbance at 280nm) |
| GENE INFORMATION | |
| Gene Name | Pebp1 phosphatidylethanolamine binding protein 1 [Mus musculus] |
| Official Symbol | Pebp1 |
| Synonyms | PEBP1; phosphatidylethanolamine binding protein 1; phosphatidylethanolamine-binding protein 1; HCNPpp; PEBP-1; Raf-1 kinase inhibitor protein; Pbp; HCNP; Pbp1; Pbpr; Rkip; MGC102065; MGC103131; |
| Gene ID | 23980 |
| mRNA Refseq | NM_018858 |
| Protein Refseq | NP_061346 |
| MIM | |
| UniProt ID | |
| Pathway | EGFR1 Signaling Pathway, organism-specific biosystem; TNF-alpha NF-kB Signaling Pathway, organism-specific biosystem; |
| Function | ATP binding; kinase binding; lipid binding; mitogen-activated protein kinase binding; |

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nucleotide binding; peptidase inhibitor activity; protein kinase binding; receptor binding; serine-type endopeptidase inhibitor activity;

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