

Full-Length

## CALY (Human) Recombinant Protein (P01)

Catalog # H00050632-P01

Size 50 ug

### Specification

|                               |                                                                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human CALY full-length ORF (AAH38978.1, 1 a.a. - 217 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                              |
| Sequence                      | MVKLGCSFSGKPGKDPGDQDGAAMDSVPLISPLDISQLQPPLPDQVVIKTQTEYQLSSPDQQNF<br>PDLEGQRLNCSHP EEGRR LPTARMI AFAMALLGCVLIMYKAWYDQFTCPDGFLLRHKICTPLTLE<br>MYTEM DPERHRSILAAIGAYPLSRKHGTETPAAWGDGYRAAKEERKGPTQAGAAAAATEPPGK<br>PSAKAEKEAARKAAGSAAPPPAQ |
| Host                          | Wheat Germ (in vitro)                                                                                                                                                                                                                   |
| Theoretical MW (kDa)          | 50.27                                                                                                                                                                                                                                   |
| Interspecies Antigen Sequence | Mouse (78); Rat (78)                                                                                                                                                                                                                    |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                   |
| Purification                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                       |
| Storage Buffer                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                         |
| Note                          | Best use within three months from the date of receipt of this protein.                                                                                                                                                                  |

### Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production

- Protein Array

## Gene Info — CALY

|                     |                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">50632</a>                                                                                                                                                                                                                                                                                                                                          |
| GeneBank Accession# | <a href="#">BC038978.1</a>                                                                                                                                                                                                                                                                                                                                     |
| Protein Accession#  | <a href="#">AAH38978.1</a>                                                                                                                                                                                                                                                                                                                                     |
| Gene Name           | CALY                                                                                                                                                                                                                                                                                                                                                           |
| Gene Alias          | DRD1IP, NSG3                                                                                                                                                                                                                                                                                                                                                   |
| Gene Description    | calcyon neuron-specific vesicular protein                                                                                                                                                                                                                                                                                                                      |
| Omim ID             | <a href="#">604647</a>                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                      |
| Gene Summary        | The protein encoded by this gene is a type II single transmembrane protein. It is required for maximal stimulated calcium release after stimulation of purinergic or muscarinic but not beta-adrenergic receptors. The encoded protein interacts with D1 dopamine receptor and may interact with other DA receptor subtypes and/or GPCRs. [provided by RefSeq] |
| Other Designations  | D1 dopamine receptor-interacting protein OTTHUMP00000020793 calcyon D1 dopamine receptor-interacting protein (CALCYON) calcyon protein dopamine receptor D1 interacting protein                                                                                                                                                                                |

## Disease

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- [Anorexia Nervosa](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Bulimia](#)
- [Cocaine-Related Disorders](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
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