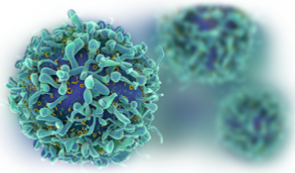

# CASP3 Protein Crystal

## Catalog: CBCRY39

## PRODUCT INFORMATION

| | |
|---|---|
| **Name** | CASP3 Protein Crystal |
| **Cat No.** | CBCRY39 |
| **Fragment** | Full length |
| **Protein Description** | Caspase-3 |
| **Background** | Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. |
| **Protein Classification** | hydrolase |
| **Structure Weight** | 114694.18 Da |
| **Method** | X-Ray Diffraction |
| **Resolution** | 2.4Å |
| **Ligand Chemical Component** | Cysteinesulfonic acid |
| **Reference** | Du, J.-Q., Wu, J., Zhang, H.-J., Zhang, Y.-H., Qiu, B.-Y., Wu, F., Chen, Y.-H., Li, J.-Y., Nan, F.-J., Ding, J.-P., Li, J. (2008) Isoquinoline-1,3,4-trione Derivatives Inactivate Caspase-3 by Generation of Reactive Oxygen Species J.Biol.Chem. 283: 30205-30215 |

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