



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 Al zheimer'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, JQ., Wu, J., Zhang, HJ., Zhang, YH., Qiu, BY., Wu, F., Chen, YH., Li, JY., Nan, FJ., Ding, JP., Li, J. (2008) Isoquinoline-1,3,4-trione Derivatives Inactivate Caspase-3 by Generation of Reactive Oxygen Species J.Biol.Chem. 283: 30205-30215

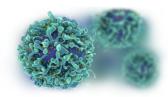
USAGE GUIDELINES

General	Avoid excessive mixing or shocking to prevent aggregation. Long term storage above -80°C may result in aggr
	egate formation.

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Storage	Short term: +2°C to +8°C Long term: -80°C
Stability	n.a.
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.