

caspase-2

Cat. No. EXWM-4230 Lot. No. (See product label)

Introduction Caspase-2 is an initiator caspase, as are caspase-8 (EC 3.4.22.61), caspase-9 (EC Description 3.4.22.62) and caspase-10 (EC 3.4.22.63). Contains a caspase-recruitment domain (CARD) in its N-terminal prodomain, which plays a role in procaspase activation. Two forms of caspase-2 with antagonistic effects exist: caspase-2L induces programmed cell death and caspase-2S suppresses cell death. Caspase-2 is activated by caspase-3 (EC 3.4.22.56), or by a caspase-3-like protease. Activation involves cleavage of the N-terminal prodomain, followed by self-proteolysis between the large and small subunits of pro-caspase-2 and further proteolysis into smaller fragments. Proteolysis occurs at Asp residues and the preferred substrate for this enzyme is a pentapeptide rather than a tetrapeptide. Apart from itself, the enzyme can cleave golgin-16, which is present in the Golgi complex and has a cleavage site that is unique for caspase-2. all-Spectrin, a component of the membrane cytoskeleton, is a substrate of the large isoform of pro-caspase-2 (caspase-2L) but not of the short isoform (caspase-2S). Belongs in peptidase family C14. ICH-1; NEDD-2; caspase-2L; caspase-2S; neural precursor cell expressed Synonyms developmentally down-regulated protein 2; CASP-2; NEDD2 protein **Product Information** Form Liquid or lyophilized powder EC Number EC 3.4.22.55 CAS No. 182372-14-1 Reaction Strict requirement for an Asp residue at P1, with Asp316 being essential for proteolytic activity and has a preferred cleavage sequence of Val-Asp-Val-Ala-Asp+

custom produce according to your specifications.

Storage and Shipping Information

Storage

Notes

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

This item requires custom production and lead time is between 5-9 weeks. We can