



Caspase Substrates and Inhibitors

Product	Size	Catalog #	Product	Size	Catalog #
Caspase 1 Substrate 1 (ICE), chromogenic	5 mg 25 mg	25250-5 25250-25	Caspase 3 Inhibitor 1b (Apopain)	5 mg 25 mg	25281-5 25281-25
Caspase 1 Substrate 1m (ICE), fluorogenic	5 mg 25 mg	25267-5 25267-25	Caspase 3 Substrate (PKCd), chromogenic	5 mg 25 mg	25260-5 25260-25
Caspase 1 Substrate 2 (ICE), chromogenic	5 mg 25 mg	25259-5 25259-25	Caspase 3 Substrate (PKCd), fluorogenic	5 mg 25 mg	25266-5 25266-25
Caspase 1 Substrate 2f (ICE), fluorogenic	5 mg 25 mg	25271-5 25271-25	Caspase 3 Inhibitor (PKCd)	5 mg 25 mg	25279-5 25279-25
Caspase 1 Substrate 2m (ICE), fluorogenic	5 mg 25 mg	25261-5 25261-25	Caspase 4 Substrate 1 (ICH-2), chromogenic	5 mg 25 mg	25249-5 25249-25
Caspase 1 Substrate 3f (ICE), fluorogenic	5 mg 25 mg	25285-5 25285-25	Caspase 4 Substrate 1f (ICH-2), fluorogenic	5 mg 25 mg	28267 28268
Caspase 1 Substrate 3m (ICE), fluorogenic	5 mg 25 mg	25275-5 25275-25	Caspase 4 Substrate 1m (ICH-2), fluorogenic	5 mg 25 mg	28265 28266
Caspase 1 Inhibitor 2 (ICE)	5 mg 25 mg	25277-5 25277-25	Caspase 6 Substrate 1 (Mch2), chromogenic	5 mg 25 mg	25254-5 25254-25
Caspase 2 Substrate, chromogenic	5 mg 25 mg	25251-5 25251-25	Caspase 6 Substrate 1f (Mch2), fluorogenic	5 mg 25 mg	25272-5 25272-25
Caspase 2 Substrate 1 (ICH-1), chromogenic	5 mg 25 mg	25252-5 25252-25	Caspase 6 Substrate 1m (Mch2), fluorogenic	5 mg 25 mg	25256-5 25256-25
Caspase 2 Substrate 1f (ICH-1), fluorogenic	5 mg 25 mg	25264-5 25264-25	Caspase 6 Substrate 2 (Mch2), fluorogenic	5 mg 25 mg	25284-5 25284-25
Caspase 2 Substrate 1m (ICH-1), fluorogenic	5 mg 25 mg	25255-5 25255-25	Caspase 6 Inhibitor 1 (Mch 2)	5 mg 25 mg	25268-5 25268-25
Caspase 2 Substrate 2 (ICH-1), fluorogenic	5 mg 25 mg	25283-5 25283-25	Caspase 8 Substrate 1, chromogenic	5 mg 25 mg	25258-5 25258-25
Caspase 3 Substrate, chromogenic	5 mg 25 mg	25253-5 25253-25	Caspase 8 Substrate 1f, fluorogenic	5 mg 25 mg	25270-5 25270-25
Caspase 3 Substrate 1 (Apopain), chromogenic	5 mg 25 mg	25263-5 25263-25	Caspase 8 Substrate 1m, fluorogenic	5 mg 25 mg	25257-5 25257-25
Caspase 3 Substrate 1f (Apopain), fluorogenic	5 mg 25 mg	25273-5 25273-25	Caspase 8 Inhibitor 1	5 mg 25 mg	25274-5 25274-25
Caspase 3 Substrate 1m (Apopain), fluorogenic	5 mg 25 mg	25262-5 25262-25	Caspase 9 Substrate 1, chromogenic	5 mg 25 mg	25278-5 25278-25
Caspase 3 Substrate 1z (Apopain), chromogenic	5 mg 25 mg	25282-5 25282-25	Caspase 9 Substrate 1f, fluorogenic	5 mg 25 mg	25276-5 25276-25
Caspase 3 Substrate 2 (Apopain), chromogenic	5 mg 25 mg	25265-5 25265-25	Caspase 9 Substrate 2m, fluorogenic	5 mg 25 mg	25286-5 25286-25
Caspase 3 Inhibitor 1 (Apopain)	5 mg 25 mg	25269-5 25269-25	Ac-AEVD-pNA	5 mg	28230

Application Note:

Caspases are a family of very specific proteases involved in the destruction of cells. In a normal, healthy human being, damaged or mutated cells are regularly destroyed to protect the rest of the body. If a cell becomes cancerous, caspases destroy the cell before the cancer can spread. This normal process of programmed cell death is called "apoptosis." Two main classes of caspases, initiator and effector caspases, are involved in apoptosis. Initiator caspases are the upstream activators of the effector caspases. Effector caspases are the executioners in the cell since they cleave and thus activate the proteins that actually induce apoptosis in the cell, resulting in morphological changes such as DNA fragmentation, membrane blebbing, or apoptotic body formation. However, caspases may not be the only enzymes involved in cell death; cell death may still occur even if all caspases are all blocked.