

survivin (baculoviral IAP repeat-containing protein 5) (21-28)

Chemical Properties

CAS No.:	TP2292
Formula:	C ₅₄ H ₇₃ N ₁₁ O ₁₁
Molecular Weight:	1052.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Survivin (baculoviral inhibitor of apoptosis IAP repeat-containing protein-5) is a member of the IAP gene family, which has been implicated in both inhibitions of apoptosis and mitosis regulation ¹ . Survivin is one of the most uniformly up-regulated genes in tumor tissues compared with healthy tissues ² . High survivin expression in the primary tumor is almost invariably associated with poor patient prognosis in many cancer types.
In vitro	Survivin relates to poor disease outcome in a variety of tumors, i.e., neuroblastoma ³ , colorectal cancer ⁴ , non-small-cell lung cancers ⁵ , B-cell lymphoma ⁶ , T-cell leukemia ⁷ , hepatocellular carcinoma, esophageal carcinoma, rectal cancer, glioma, bladder cancer, soft tissue sarcoma, and astrocytic tumors. Survivin mRNA, as measured by quantitative RT-PCR in the primary tumor, has strong and independent prognostic value in human breast cancer. Survivin mRNA concentrations in the tumor can be used to classify breast cancer patients into different risk groups. Cells that are unresponsive to apoptotic triggers will also be more resistant to cytotoxic treatments, as are cells that overexpress survivin ⁹ .

Solubility Information

Solubility	DMSO: ≥105.2mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.95 mL	4.752 mL	9.504 mL
5 mM	0.19 mL	0.95 mL	1.901 mL
10 mM	0.095 mL	0.475 mL	0.95 mL
50 mM	0.019 mL	0.095 mL	0.19 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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