Data Sheet (Cat.No.TMPY-03672)

TargetMol

Survivin Protein, Human, Recombinant

General Information

Synonyms:	BIRC5;IAP4;API4;baculoviral IAP repeat containing 5;EPR-1
Protein Construction:	A DNA sequence encoding the human BIRC5 (NP_001159.2) (Met1-Asp142) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus. Predicted N terminal: Gly
Species:	Human
Expression Host:	E. coli
Accession:	O15392
Molecular Weight:	16.5 kDa (predicted); 19 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile PBS, 20% glycerol, pH 7.4.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

BIRC5, also known as Survivin and EPR-1, is a member of theIAP family. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but BIRC5 has only a single BIR domain. It is expressed cell cycle-dependently and highly expressed at mitosis. As a multitasking protein, BIRC5 has dual roles in promoting cell proliferation and preventing apoptosis. Survivin is a component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis. Survivin acts as an important regulator of the localization of this complex. It may counteract a default induction of apoptosis in G2/M phase.

Reference

Altieri DC. 1994, J Biol Chem. 269 (5): 3139-42.
Bouchard BA. et al., 2002, Thromb Haemost. 86 (4): 1133-5.
Yao XQ. et al., 2004, World J Gastroenterol. 10 (9): 1262-7.

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