



Recombinant Protein Technical Manual
Recombinant Human BNIP3/NIP3 Protein (His Tag)
RPES3524

Product Data:

Product SKU: RPES3524

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q12983

Protein Information:

Molecular Mass: 20.6 kDa

AP Molecular Mass: 28 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: BCL2/Adenovirus E1B 19 kDa Protein-Interacting Protein 3; BNIP3; NIP3

Immunogen Information:

Sequence: Met 1-Leu166

Background:

BCL2/Adenovirus E1B 19 kDa Protein-interacting Protein 3 (BNIP3) is a single-pass membrane protein. BNIP3 is a member of the NIP3 family. BNIP3 contains a single Bcl-2 homology 3 domain and interacts with the E1B 19 kDa protein. BNIP3 have been associated with pro-apoptotic function. BNIP3 is an apoptosis-inducing protein that can overcome BCL2 suppression. It plays a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2. BNIP3 involved in mitochondrial quality control via its interaction with SPATA18/MIEAP, response to mitochondrial damage, participates to mitochondrial protein catabolic process.