



# Recombinant Protein Technical Manual

## Recombinant Human Bridging Integrator 2/BIN2 Protein (His Tag)

RPES3649

### Product Data:

**Product SKU:** RPES3649

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9UBW5

### Protein Information:

**Molecular Mass:** 30.6 kDa

**AP Molecular Mass:** 32 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % 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, pH 7.4.

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

**Application:**

**Synonyms:** Bridging Integrator 2; Breast Cancer-Associated Protein 1; BIN2; BRAP1

## Immunogen Information:

**Sequence:** Met 1-Asn244

## Background:

Bridging Integrator 2 (BIN2) is a cytoplasmic protein. BIN2 contains one BAR domain and Interacts with BIN1. BIN2 is highly expressed in some hematopoietic tissues, including peripheral blood, thymus, colon and placenta. BIN2 is an Arabidopsis GSK3-like kinase that negatively regulates brassinosteroid (BR) signaling. Genetic studies show that BIN2 is inhibited in response to BR perception at the cell surface to relieve its inhibitory effects on downstream targets.