



# Recombinant Protein Technical Manual

## Recombinant Human ITM2B Protein (His Tag)

RPES1662

### Product Data:

**Product SKU:** RPES1662

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9Y287

### Protein Information:

**Molecular Mass:** 23.3 kDa

**AP Molecular Mass:** 29-33 kDa

**Tag:** C-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:** Integral Membrane Protein 2B; Immature BRI2; imBRI2; Protein E25B; Transmembrane Protein BRI; Bri; ITM2B; BRI; BRI2

## Immunogen Information:

**Sequence:** Tyr76-Ser266

## Background:

Integral Membrane Protein 2B (ITM2B) is expressed in the Golgi and on the cell surface. ITM2B forms homodimer through disulfide-linked interaction with SPPL2A, SPPL2B and APP. ITM2B is expressed in brain and the other tissues. Defects in ITM2B cause cerebral amyloid angiopathy ITM2B-related type 1(CAA-ITM2B1) and amyloid angiopathy ITM2B-related type 2(CAA-ITM2B2). CAA-ITM2B1 is characterized by amyloid deposition in the walls of cerebral blood vessels and neurodegeneration in the central nervous system. CAA-ITM2B2 characterized by amyloid deposition in the walls of the blood vessels of the cerebrum, choroid plexus, cerebellum, spinal cord and retina.