

Recombinant Human ITM2B, His-tagged

Cat. No. ITM2B-120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Integral Membrane Protein 2B/ITM2B is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Tyr76-Ser266) of Human ITM2B fused with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 76-266 a.a.

Description 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.

AA Sequence YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVP
EFADS DPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIVMPPRNLELLINIKAGTYLP
QSYLIHEHMVI TDRIENIDHLGFFIYRLCHDKETYKLQRRETIKGIQKREASNCFAIRH

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FENKFAVETLICSDVHH HHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name [ITM2B integral membrane protein 2B \[Homo sapiens \]](#)

Official Symbol ITM2B

Synonyms ITM2B; integral membrane protein 2B; BRI; E3 16; E25B; ABri/ADan amyloid peptide; transmembrane protein BRI; BRICHOS domain containing 2B; FBD; ABRI; BRI2; E3-16; BRICD2B;

Gene ID [9445](#)

mRNA Refseq [NM_021999](#)

Protein Refseq [NP_068839](#)

MIM [603904](#)

UniProt ID [Q9Y287](#)

Chromosome Location 13q14.2

Pathway Amyloids, organism-specific biosystem; Disease, organism-specific biosystem; IL-2 Signaling Pathway, organism-specific biosystem;

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Function

ATP binding; beta-amyloid binding;

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