Data Sheet (Cat.No.TMPY-03865)

TargetMol

EB3 Protein, Human, Recombinant (His)

General Information

Synonyms:	microtubule-associated protein, RP/EB family, member 3;EB3;RP3;EBF3;EBF3-S
Protein Construction:	A DNA sequence encoding the human MAPRE3 (Q9UPY8-1) (Met1-Tyr281) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9UPY8-1
Molecular Weight:	33.8 kDa (predicted); 34 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:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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 recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

MAPRE3 (Microtubule Associated Protein RP/EB Family Member 3, also known as EB3) is a Protein Coding gene. 2 alternatively spliced human isoforms have been reported. MAPRE3 is a member of the RP/EB family. It localizes to the cytoplasmic microtubule network and binds APCL. MAPRE3 regulates the dynamics of the microtubule cytoskeleton and promotes microtubule growth. It may be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. MAPRE3 may also play a role in cell migration. MAPRE3 is broadly expressed

in the brain, testis, and other tissues. Diseases associated with MAPRE3 include Neuronopathy, Distal Hereditary Motor, Type Viib, and Distal Hereditary Motor Neuronopathy Type 7.

Reference

Rual JF. et al., 2005, Nature. 437 (7062): 1173-8.
Yeh TY. et al., 2005, J Cell Sci. 118 (15): 3431-43.
Mimori-Kiyosue Y. et al., 2005, J Cell Biol. 168 (1): 141-53.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481