

Recombinant Mouse MACIR Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52151

Size: 10ug, 100ug

Protein Name: Macrophage immunometabolism regulator

Synonym: Macir, D1Ert622e

UniProt ID: Q8VEB3

UniProt Link: www.uniprot.org/uniprotkb/Q8VEB3/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 207 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEVDINGDSRSTLTTLPLPVAEGSSPGKAEAEKPRCSSTPCSPMRRTVSGYQILHMDSNYLVGFTT
GEELLKLAQKCTGGEDSKGEAMPALRAKQLDTGLARSSRLYKTRSRYYQPYEIPAVNGRRRRRMPS
SGDKCTKPLPYEPYKALHGPLPLCLLKGRKRAHSKSLDYLNLDKMNIKEPADTEVLQYQLQHLTLRGD
RVFARNNT

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Macrophage immunometabolism regulator produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Regulates the macrophage function, by enhancing the resolution of inflammation and wound repair functions mediated by M2 macrophages. The regulation of macrophage function is, due at least in part, to its ability to inhibit glycolysis. May also play a role in trafficking of proteins via its interaction with UNC119 and UNC119B cargo adapters: may help the release of UNC119 and UNC119B cargo or the recycling of UNC119 and UNC119B. May play a role in ciliary membrane localization via its interaction with UNC119B and protein transport into photoreceptor cells.

Subcellular Localization: Cytoplasm . Cell projection, cilium . Note=Localizes to the transition zone and proximal cilium in addition to being found throughout the cytoplasm.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.